

# NACOmatic

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## GENERAL INFORMATION

This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the FAA, Department of Transportation, National Aeronautical Navigation Services, Silver Spring, Maryland 20910. It is designed for use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data, navigational facilities and certain special notices and procedures.

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is applicable to civil users.

## CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

**CRITICAL** information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

**FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE:** <http://nfdc.faa.gov/portal/airportchanges.do>

FAA, Aeronautical Information Services, ATO-R, Rm. 626  
800 Independence Ave., SW  
Washington, DC 20591  
Telephone 1-866-295-8236  
Fax 202-267-5322  
Email 9-ATOR-HQ-AIS-AIRPORTCHANGES@FAA.GOV

NOTICE: Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

Effective Date	Airport Information	Airspace Information*
	Cut-off date	Cut-off date
8 Apr 10	24 Feb 10	4 Feb 10
3 Jun 10	21 Apr 10	1 Apr 10
29 Jul 10	16 Jun 10	27 May 10
23 Sep 10	11 Aug 10	22 Jul 10
18 Nov 10	6 Oct 10	16 Sep 10
13 Jan 11	1 Dec 10	11 Nov 10

\*Including changes to preferred routes and graphic depictions on charts.

**FOR CHARTING ERRORS CONTACT:**

FAA, National Aeronautical Navigation Services  
SSMC-4 Sta. #4259  
1305 East West Highway  
Silver Spring, MD 20910-3281  
Telephone 1-800-626-3677  
Email 9-AMC-Aerochart@faa.gov

Frequently asked questions (FAQs) are answered on our website at <http://aeronav.faa.gov>.

See the FAQs prior to contact via toll free number.

**FOR PROCUREMENT CONTACT:**

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Email 9-AMC-Chartsales@faa.gov  
Telephone 1-800-638-8972  
Fax 301-436-6829  
or any authorized chart agent.

**New or Changed Information**—To alert users of new information or changes to information from the previous issue, a vertical line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.



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## ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms may be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatical variations of the basic form. (Example—"req" may mean "request", "requesting", "requested", or "requests").

AAF	Army Air Field	byd	beyond
AB	Airbase	C	Commercial Circuit (Telephone)
abv	above	CGAF	Coast Guard Air Facility
ACC	Air Combat Command; Area Control Center	CGAS	Coast Guard Air Station
acft	aircraft	CIV	Civil
ADCC	Air Defense Control Center	clsd	closed
AER	approach end rwy	comd	command
AFB	Air Force Base	CONUS	Continental United States
AFHP	Air Force Heliport	CSTMS	Customs
afld	airfield	ctc	contact
AFOD	US Army Flight Operations Detachment	ctl	control
AFRC	Armed Forces Reserve Center/Air Force Reserve Command	dalgt	daylight
AFSS	Automated Flight Service Station	Dec	December
AG	Agriculture	DIAP	DoD Instrument Approach Procedure
A-GEAR	Arresting Gear	DoD	Department of Defense
AGL	above ground level	DSN	Defense Switching Network (Telephone)
AHP	Army heliport	dspld	displaced
ALS	Approach Light System	durn	duration
alt	altitude	eff	effective
AMC	Air Mobility Command	emerg	emergency
ANGS	Air National Guard Station	EOR	End of Runway
apch	approach	ETA	Estimated Time of Arrival
Apr	April	ETD	Estimated Time of Departure
APU	Auxiliary Power Unit	exc	except
ARB	Air Reserve Base	extd	extend
arpt	airport	FBO	fixed-base operator
ARS	Air Reserve Station	Feb	February
AS	Air Station	fld	field
ASDE-X	Airport Surface Detection Equipment—Model X	FLIP	Flight Information Publication
ASU	Aircraft Starting Unit	flt	flight
ATC	Air Traffic Control	flw	follow
Aug	August	Fri	Friday
AUW	All Up Weight (gross weight)	FSS	Flight Service Station
avbl	available	GA	glide angle
bcn	beacon	GCA	Ground Controlled Approach
blo	below	GS	glide slope
		haz	hazard
		HQ	Headquarters

CONTINUED ON NEXT PAGE

## CONTINUED FROM PRECEDING PAGE

hr	hour	npi	non precision instrument
IAP	Instrument Approach Procedure	NS ABTMT	Noise Abatement
ICAO	International Civil Aviation Organization	NSTD	nonstandard
IFR	Instrument Flight Rules	ntc	notice
ILS	Instrument Landing System	obsn	observation
IM	Inner Marker	Oct	October
IMG	Immigration	OLF	Outlying Field
incr	increase	opr	operate, operator, operational
indef	indefinite	ops	operations
ints	intensity	OTS	out of service
invo	in the vicinity of	ovrn	overrun
IMC	Instrument Meteorological Conditions	PAEW	personnel and equipment working
Jan	January	pat	pattern
JASU	Jet Aircraft Starting Unit	p-line	power line
JOAP	Joint Oil Analysis Program	PMSV	Pilot-to-Metro Service
JOSAC	Joint Operational Support Airlift Center	POL	Petrol, Oils and Lubricants
JRB	Joint Reserve Base	PPR	prior permission required
Jul	July	PRM	Precision Runway Monitoring
Jun	June	PTD	Pilot to Dispatcher
Kt	Knots	RAMCC	Regional Air Movement Control Center
LAA	Local Airport Advisory	req	request
LAHSO	Land and Hold Short Operations	rgt tfc	right traffic
lbs	pounds	RON	Remain Overnight
ldg	landing	rqr	require
lgt	lighted	rstd	restricted
lgts	lights	RSRS	reduced same runway separation
LMM	Compass locator at Middle Marker ILS	rw	runway
LOC	Localizer	Sat	Saturday
LOM	Compass locator at Outer Marker ILS	SELF	Strategic Expeditionary Landing Field
ltd	limited	Sep	September
MACC	Military Area Control Center	SFA	Single Frequency Approach
Mar	March	sfc	surface
MCAF	Marine Corps Air Facility	SFRA	Special Flight Rules Area
MICALF	Marine Corps Auxiliary Landing Field	SOAP	Spectrometric Oil Analysis Program
MCAS	Marine Corps Air Station	SOF	Supervisor of Flying
MCB	Marine Corps Base	SPB	Seaplane Base
med	medium	SR	sunrise
METRO	Pilot-to-Metro voice call	SS	sunset
Mil	military	std	standard
min	minute	Sun	Sunday
MLS	Microwave Landing System	svc	service
MM	Middle Marker of ILS	tfc	traffic
Mon	Monday	thld	threshold
MP	Maintenance Period	Thu	Thursday
MSL	mean sea level	tkf	take-off
MSAW	minimum safe altitude warning	tmp	temporary
NAAS	Naval Auxiliary Air Station	tran	transient
NADC	Naval Air Development Center	Tue	Tuesday
NADEP	Naval Air Depot	twr	tower
NAEC	Naval Air Engineering Center	twy	taxiway
NAES	Naval Air Engineering Station	UC	Under Construction
NAF	Naval Air Facility	USA	United States Army
NALCO	Naval Air Logistics Control Office	USAF	United States Air Force
NALO	Navy Air Logistics Office	USCG	United States Coast Guard
NALF	Naval Auxiliary Landing Field	USN	United States Navy
NAS	Naval Air Station	V	Defense Switching Network (telephone, formerly AUTOVON)
NAWC	Naval Air Warfare Center	VFR	Visual Flight Rules
NAWS	Naval Air Weapons Station	VIP	Very Important Person
ngt	night	VMC	Visual Meteorological Conditions
NOLF	Naval Outlying Field	Wed	Wednesday
Nov	November	wx	weather

# DIRECTORY LEGEND

## SAMPLE

① CITY NAME  
 ② AIRPORT NAME (ALTERNATE NAME) (LTS) (KLTS) CIV/MIL 3 N UTC-6(-5DT) N34°41.93' W99°20.20' JACKSONVILLE  
 ③ 200 B S4 FUEL 100 OX 1 TPA-1000(800) AOE Class IV, ARFF Index A NOTAM FILE ORL Not insp. COPTER  
 ④ ⑤ ⑥ ⑦ ⑧ ⑨ H-46, L-19C IAP, DIAP, AD

⑩ RWY 18-36: H12004X200 (ASPH-CONC-GRVD)  
 S-90, D-160, DT-300 PCN 80 R/B/W/T HIRL CL  
 RWY 18: LDIN. MALSF. TDZL. REIL. PAPI(P2R)—GA 3.0° TCH 36'.  
 Thld displcd 300'. Trees. Rgt tfc. 0.3% up.  
 RWY 36: ALSF1. 0.4% down.  
 RWY 09-27: H6000X150 (ASPH) MIRL  
 RWY 173-353: H3515X150 (ASPH-PFC) AUW PCN 59 F/A/W/T

⑪ LAND AND HOLD SHORT OPERATIONS  
 LANDING HOLD SHORT POINT DIST AVBL  
 RWY 18 09-27 6500  
 RWY 36 09-27 5400

⑫ RUNWAY DECLARED DISTANCE INFORMATION  
 RWY 18: TORA-12004 TODA-12704 ASDA-11704 LDA-11504  
 RWY 36: TORA-12004 TODA-12004 ASDA-12004 LDA-11704

⑬ ARRESTING GEAR/SYSTEM  
 RWY 18 → HOOK E5 (65' OVRN) BAK-14 BAK-12B (1650')  
 BAK-14 BAK-12 (B) (1087') HOOK E5 (74' OVRN) ← RWY 36

⑭ MILITARY SERVICE: A-GEAR E-5 connected on dep end, disconnected on  
 apch end. JASU 3(AM32A-60) 2(A/M32A-86)

⑮ ⑯ FUEL J8(Mil) (NC-100, A) FLUID W SP PRESAIR LOX  
 OIL O-128 TRAN ALERT Avbl 1300-0200Z†, svc limited weekends.

⑰ ⑱ AIRPORT REMARKS: Special Air Traffic Rules—Part 93, see Regulatory Notices. Attended 1200-0300Z†. Parachute  
 Jumping. Deer invov arpt. Heavy jumbo jet training surface to 9000'. Twy A clsd indef. Flight Notification Service  
 (ADCUS) avbl.

⑲ ⑳ MILITARY REMARKS: ANG PPR/Official Business Only. Base OPS DSN 638-4390, C503-335-4222. Ctc Base OPS 15  
 minutes prior to ldg and after dep. Limited tran parking.

㉑ WEATHER DATA SOURCES: AWOS-1 120.3 (202) 426-8000. LLWAS.

㉒ COMMUNICATIONS: SFA ATIS 127.25 273.5 (202) 426-8003 UNICOM 122.95 PTD 372.2  
 NAME FSS (ORL) on arpt. 123.65 122.65 122.2  
 NAME RCO 112.2T 112.1R (NAME RADIO)  
 ⑳ NAME APP/DEP CON 128.35 257.725 (1200-0400Z†)  
 TOWER 119.65 255.6 (1200-0400Z†) GND CON 121.7 GCO 135.075 (ORLANDO CLNC) CLNC DEL 125.55  
 NAME COMD POST (GERONIMO) 311.0 321.4 6761 PMSV METRO 239.8 NAME OPS 257.5

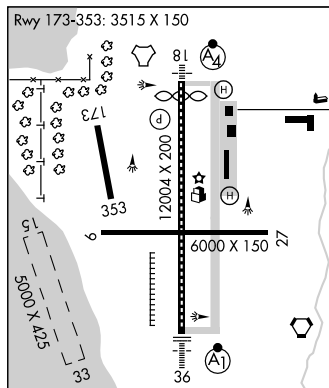
㉓ AIRSPACE: CLASS B See VFR Terminal Area Chart.

㉔ RADIO AIDS TO NAVIGATION: NOTAM FILE ORL. VHF/DF ctc FSS.  
 (H) VORTAC 112.2 MCO Chan 59 N28°32.55' W81°20.12' at fld. 1110/8E.  
 (H) TACAN Chan 29 CBU (109.2) N28°32.65' W81°21.12' at fld. 1115/8E.  
 HERNY NDB (LOM) 221 OR N28°37.40' W81°21.05' 177° 5.4 NM to fld.  
 ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.  
 ASR/PAR (1200-0400Z†)

㉕ COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

HELIPAD H1: H100X75 (ASPH)  
 HELIPAD H2: H60X60 (ASPH)  
 HELIPORT REMARKS: Helipad H1 lctd on general aviation side and H2 lctd on air carrier side of arpt.

187 TPA 1000(813)  
 WATERWAY 15-33: 5000X425 (WATER)  
 SEAPLANE REMARKS: Birds roosting and feeding areas along river banks. Seaplanes operating adjacent to SW side of  
 arpt not visible from twr and are required to ctc twr.



All bearings and radials are magnetic unless otherwise specified.

All mileages are nautical unless otherwise noted.

All times are Coordinated Universal Time (UTC) except as noted.

All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.

The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

10

# SKETCH LEGEND

## RUNWAYS/LANDING AREAS

Hard Surfaced .....	
Metal Surface .....	
Sod, Gravel, etc. ....	
Light Plane, ....	
Ski Landing Area or Water	
Under Construction .....	
Closed .....	
Helicopter Landings Area .....	
Displaced Threshold .....	
Taxiway, Apron and Stopways ..	

## MISCELLANEOUS BASE AND CULTURAL FEATURES

Buildings .....	
Power Lines .....	
Fence .....	
Towers .....	
Tanks .....	
Oil Well .....	
Smoke Stack .....	
Obstruction .....	
Controlling Obstruction .....	
Trees .....	
Populated Places .....	
Cuts and Fills .....	
Cliffs and Depressions ..	
Ditch .....	
Hill .....	

## RADIO AIDS TO NAVIGATION

VORTAC ...		VOR .....	
VOR/DME ..		NDB .....	
TACAN ....		NDB/DME ....	

## MISCELLANEOUS AERONAUTICAL FEATURES

Airport Beacon .....	
Wind Cone .....	
Landing Tee .....	
Tetrahedron .....	
Control Tower .....	

## APPROACH LIGHTING SYSTEMS

A dot "•" portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system e.g. (A1) Negative symbology, e.g., (A1) indicates Pilot Controlled Lighting (PCL).

Runway Centerline Lighting .....	
(A) Approach Lighting System ALSF-2 ..	
(A1) Approach Lighting System ALSF-1 ..	
(A2) Short Approach Lighting System SALS/SALSF .....	
(A3) Simplified Short Approach Lighting System (SSALR) with RAIL .....	
(A4) Medium Intensity Approach Lighting System (MALS and MALSF)/(SSALS and SSALF) .....	
(A5) Medium Intensity Approach Lighting System (MALSR) and RAIL .....	
(+) Omnidirectional Approach Lighting System (ODALS) .....	
(D) Navy Parallel Row and Cross Bar ..	
(F) Air Force Overrun .....	
(V) Visual Approach Slope Indicator with Standard Threshold Clearance provided	
(V2) Pulsating Visual Approach Slope Indicator (PVASI)	
(V3) Visual Approach Slope Indicator with a threshold crossing height to accommodate long bodied or jumbo aircraft	
(V4) Tri-color Visual Approach Slope Indicator (TRCV)	
(V5) Approach Path Alignment Panel (APAP)	
(P) Precision Approach Path Indicator (PAPI)	

## LEGEND

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Nav aids, flight service stations and remote communication outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well as under the airport with which they are associated.

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases. Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the sample on the preceding pages.

### ① CITY/AIRPORT NAME

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

### ② ALTERNATE NAME

Alternate names, if any, will be shown in parentheses.

### ③ LOCATION IDENTIFIER

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to differentiate them from the letter "O".

### ④ OPERATING AGENCY

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no military tenant.

A	US Army	MC	Marine Corps
AFRC	Air Force Reserve Command	N	Navy
AF	US Air Force	NAF	Naval Air Facility
ANG	Air National Guard	NAS	Naval Air Station
AR	US Army Reserve	NASA	National Air and Space Administration
ARNG	US Army National Guard	P	US Civil Airport Wherein Permit Covers
CG	US Coast Guard		Use by Transient Military Aircraft
CIV/MIL	Joint Use Civil/Military	PVT	Private Use Only (Closed to the Public)
DND	Department of National Defense Canada		

### ⑤ AIRPORT LOCATION

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal points, e.g., 4 NE.

### ⑥ TIME CONVERSION

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saving time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

# **7 GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)**

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric center of all usable runway surfaces.

# **8 CHARTS**

Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is located. Helicopter Chart locations will be indicated as COPTER. IFR Gulf of Mexico West and IFR Gulf of Mexico Central will be depicted as GOMW and GOMC.

# **9 INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAM**

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information Manual 5–4–5 Instrument Approach Procedure Charts for additional information. AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city and airport name.

# **10 AIRPORT SKETCH**

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbolology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport sketches will be added incrementally.

# **11 ELEVATION**

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be indicated as "00'". When elevation is below sea level a minus "–" sign will precede the figure.

# **12 ROTATING LIGHT BEACON**

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

# **13 SERVICING—CIVIL**

S1: Minor airframe repairs.	S5: Major airframe repairs.
S2: Minor airframe and minor powerplant repairs.	S6: Minor airframe and major powerplant repairs.
S3: Major airframe and minor powerplant repairs.	S7: Major powerplant repairs.
S4: Major airframe and major powerplant repairs.	S8: Minor powerplant repairs.

# **14 FUEL**

CODE	FUEL	CODE	FUEL
80	Grade 80 gasoline (Red)	B+	Jet B, Wide-cut, turbine fuel with FS-II*, FP** minus 50° C.
100	Grade 100 gasoline (Green)	J4 (JP4)	(JP–4 military specification) FP** minus 58° C.
100LL	100LL gasoline (low lead) (Blue)	J5 (JP5)	(JP–5 military specification) Kerosene with FS–11, FP** minus 46°C.
115	Grade 115 gasoline (115/145 military specification) (Purple)	J8 (JP8)	(JP–8 military specification) Jet A–1, Kerosene with FS–II*, FP** minus 47°C.
A	Jet A, Kerosene, without FS–II*, FP** minus 40° C.	J8+100	(JP–8 military specification) Jet A–1, Kerosene with FS–II*, FP** minus 47°C, with-fuel additive package that improves thermo stability characteristics of JP–8.
A+	Jet A, Kerosene, with FS–II*, FP** minus 40°C.	J	(Jet Fuel Type Unknown)
A1	Jet A–1, Kerosene, without FS–II*, FP** minus 47°C.	MOGAS	Automobile gasoline which is to be used as aircraft fuel.
A1+	Jet A–1, Kerosene with FS–II*, FP** minus 47° C.		
B	Jet B, Wide-cut, turbine fuel without FS–II*, FP** minus 50° C.		

\*(Fuel System Icing Inhibitor)

\*\*(Freeze Point)

**NOTE:** Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS", however, the grade/type and other octane rating will not be published.

Data shown on fuel availability represents the most recent information the publisher has been able to acquire. Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

# **15 OXYGEN—CIVIL**

OX 1 High Pressure	OX 3 High Pressure—Replacement Bottles
OX 2 Low Pressure	OX 4 Low Pressure—Replacement Bottles

# **16 TRAFFIC PATTERN ALTITUDE**

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA—See Remarks" and detailed information shall be shown in the Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

**17 AIRPORT OF ENTRY, LANDING RIGHTS, AND CUSTOMS USER FEE AIRPORTS**

U.S. CUSTOMS USER FEE AIRPORT—Private Aircraft operators are frequently required to pay the costs associated with customs processing.

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one hour advance notice of arrival is required.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or Mexico. Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.)

US Customs Air and Sea Ports, Inspectors and Agents

Northeast Sector (New England and Atlantic States—ME to MD)

407-975-1740

Southeast Sector (Atlantic States—DC, WV, VA to FL)

407-975-1780

Central Sector (Interior of the US, including Gulf states—MS, AL, LA)

407-975-1760

Southwest East Sector (OK and eastern TX)

407-975-1840

Southwest West Sector (Western TX, NM and AZ)

407-975-1820

Pacific Sector (WA, OR, CA, HI and AK)

407-975-1800

**18 CERTIFICATED AIRPORT (14 CFR PART 139)**

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV will always carry an Index A.

14 CFR PART 139 CERTIFICATED AIRPORTS  
AIRPORT CLASSIFICATIONS

Type of Air Carrier Operation	Class I	Class II	Class III	Class IV
Scheduled Air Carrier Aircraft with 31 or more passenger seats	X			
Unscheduled Air Carrier Aircraft with 31 or more passengers seats	X	X		X
Scheduled Air Carrier Aircraft with 10 to 30 passenger seats	X	X	X	

**14 CFR—PART 139 CERTIFICATED AIRPORTS**

## INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

Airport Index	Required No. Vehicles	Aircraft Length	Scheduled Departures	Agent + Water for Foam
A	1	<90'	≥1	500#DC or HALON 1211 or 450#DC + 100 gal H <sub>2</sub> O
B	1 or 2	≥90', <126' ----- ≥126', <159'	≥5 ----- <5	Index A + 1500 gal H <sub>2</sub> O
C	2 or 3	≥126', <159' ----- ≥159', <200'	≥5 ----- <5	Index A + 3000 gal H <sub>2</sub> O
D	3	≥159', <200' ----- >200'	 ----- <5	Index A + 4000 gal H <sub>2</sub> O
E	3	≥200'	≥5	Index A + 6000 gal H <sub>2</sub> O

> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H<sub>2</sub>O—Water; DC—Dry Chemical.

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd.—indicates ARFF coverage may or may not be available, for information contact airport manager prior to flight.

**19 NOTAM SERVICE**

All public use landing areas are provided NOTAM "D" (distant dissemination) and NOTAM "L" (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. "NOTAM FILE IAD". See AIM, Basic Flight Information and



ATC Procedures for detailed description of NOTAM's. Current NOTAMS are available from Flight Service Stations at 1-800-WX-BRIEF. Real time Military NOTAMS are available using the DoD Internet NOTAM Distribution System (DINS) [www.notams.jcs.mil](http://www.notams.jcs.mil).

## 20 FAA INSPECTION

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

## 21 RUNWAY DATA

Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown, e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

### RUNWAY DESIGNATION

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel runways can be designated L (left)/R (right)/C (center). Runways may be designated as Ultralight or assault strips. Assault strips are shown by magnetic bearing.

### RUNWAY DIMENSIONS

Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but excluding those areas designed as overruns.

### RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part asphalt-concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is indicated in parentheses after runway length as follows:

(AFSC)—Aggregate friction seal coat	(GRVL)—Gravel, or cinders	(PSP)—Pierced steel plank
(ASPH)—Asphalt	(MATS)—Pierced steel planking, landing mats, membranes	(RFSC)—Rubberized friction seal coat
(CONC)—Concrete	(PEM)—Part concrete, part asphalt	(TURF)—Turf
(DIRT)—Dirt	(PFC)—Porous friction courses	(TRTD)—Treated
(GRVD)—Grooved		(WC)—Wire combed

### RUNWAY WEIGHT BEARING CAPACITY

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual, T=Triple and Q=Quadruple:

CURRENT	NEW	NEW DESCRIPTION
S	S	Single wheel type landing gear (DC3), (C47), (F15), etc.
D	D	Dual wheel type landing gear (BE1900), (B737), (A319), etc.
T	D	Dual wheel type landing gear (P3, C9).
ST	2S	Two single wheels in tandem type landing gear (C130).
TRT	2T	Two triple wheels in tandem type landing gear (C17), etc.
DT	2D	Two dual wheels in tandem type landing gear (B707), etc.
TT	2D	Two dual wheels in tandem type landing gear (B757, KC135).
SBTT	2D/D1	Two dual wheels in tandem/dual wheel body gear type landing gear (KC10).
None	2D/2D1	Two dual wheels in tandem/two dual wheels in tandem body gear type landing gear (A340-600).
DDT	2D/2D2	Two dual wheels in tandem/two dual wheels in double tandem body gear type landing gear (B747, E4).
TTT	3D	Three dual wheels in tandem type landing gear (B777), etc.
TT	D2	Dual wheel gear two struts per side main gear type landing gear (B52).
TDT	C5	Complex dual wheel and quadruple wheel combination landing gear (C5).

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

PSI—Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support, e.g., (SWL 000/PSI 535).

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available for all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be shown as a five-part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:

- (1) The PCN NUMBER—The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN can operate on the pavement subject to any limitation on the tire pressure.
- (2) The type of pavement:
  - R — Rigid
  - F — Flexible
- (3) The pavement subgrade category:
  - A — High
  - B — Medium
  - C — Low
  - D — Ultra-low
- (4) The maximum tire pressure authorized for the pavement:
  - W — High, no limit
  - X — Medium, limited to 217 psi
  - Y — Low, limited to 145 psi
  - Z — Very low, limited to 73 psi
- (5) Pavement evaluation method:
  - T — Technical evaluation
  - U — By experience of aircraft using the pavement

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published PCN or aircraft tire pressure exceeds the published limits.

#### RUNWAY LIGHTING

Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots, lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the runway or runway end they serve.

NSTD—Light system fails to meet FAA standards.

LIRL—Low Intensity Runway Lights.

MIRL—Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights.

RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL—Centerline Lights.

TDZL—Touchdown Zone Lights.

ODALS—Omni Directional Approach Lighting System.

AF OVRN—Air Force Overrun 1000' Standard Approach Lighting System.

LDIN—Lead-In Lighting System.

MALS—Medium Intensity Approach Lighting System.

MALSF—Medium Intensity Approach Lighting System with Sequenced Flashing Lights.

MALSR—Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

SALS—Short Approach Lighting System.

SALSF—Short Approach Lighting System with Sequenced Flashing Lights.

SSALS—Simplified Short Approach Lighting System.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with Runway Alignment Indicator Lights.

ALSAF—High Intensity Approach Lighting System with Sequenced Flashing Lights.

ALSF1—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category I, Configuration.

ALSF2—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category II, Configuration.

SF—Sequenced Flashing Lights.

OLS—Optical Landing System.

WAVE—OFF.

NOTE: Civil ALSF2 may be operated as SSALR during favorable weather conditions. When runway edge lights are positioned more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on which they are tenants.

## VISUAL GLIDESLOPE INDICATORS

APAP—A system of panels, which may or may not be lighted, used for alignment of approach path.

PNIL APAP on left side of runway

PNIR APAP on right side of runway

PAPI—Precision Approach Path Indicator

P2L 2-identical light units placed on left side of runway

P4L 4-identical light units placed on left side of runway

P2R 2-identical light units placed on right side of runway

P4R 4-identical light units placed on right side of runway

PVASI—Pulsating/steady burning visual approach slope indicator, normally a single light unit projecting two colors.

PSIL PVASI on left side of runway

PSIR PVASI on right side of runway

SAVASI—Simplified Abbreviated Visual Approach Slope Indicator

S2L 2-box SAVASI on left side of runway

S2R 2-box SAVASI on right side of runway

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

TRIL TRCV on left side of runway

TRIR TRCV on right side of runway

VASI—Visual Approach Slope Indicator

V2L 2-box VASI on left side of runway

V6L 6-box VASI on left side of runway

V2R 2-box VASI on right side of runway

V6R 6-box VASI on right side of runway

V4L 4-box VASI on left side of runway

V12 12-box VASI on both sides of runway

V4R 4-box VASI on right side of runway

V16 16-box VASI on both sides of runway

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., -GA 3.5° TCH 37'.

## PILOT CONTROL OF AIRPORT LIGHTING

Key Mike	Function
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-Off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-Off)

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07–25, MALSR Rwy 07, and VASI Rwy 07—122.8.

Where the airport is not served by an instrument approach procedure and/or has an independent type system of different specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, "Basic Flight Information and ATC Procedures," for detailed description of pilot control of airport lighting.

## RUNWAY SLOPE

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up or down) on the runway end line, e.g., RWY 13: 0.3% up., RWY 21: Pole. Rgt tfc. 0.4% down.

## RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. "Rgt tfc"—Right traffic indicates right turns should be made on landing and takeoff for specified runway end.

## LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold-short operations and markings.

## RUNWAY DECLARED DISTANCE INFORMATION

TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane take-off.

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided.

LDA—Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.

## 22 ARRESTING GEAR/SYSTEMS

Arresting gear is shown as it is located on the runway. The a-gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A-Gear which has a bi-direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A-Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations.

Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

## BI-DIRECTIONAL CABLE (B)

<u>TYPE</u>	<u>DESCRIPTION</u>
BAK-9	Rotary friction brake.
BAK-12A	Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary friction brake.
BAK-12B	Extended BAK-12 with 1200 foot run, 1¼ inch Cable and 50,000 pounds weight setting. Rotary friction brake.
E28	Rotary Hydraulic (Water Brake).
M21	Rotary Hydraulic (Water Brake) Mobile.

The following device is used in conjunction with some aircraft arresting systems:

BAK-14	A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to five seconds to fully raise the cable.)
H	A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to one and one-half seconds to fully raise the cable.)

## UNI-DIRECTIONAL CABLE

<u>TYPE</u>	<u>DESCRIPTION</u>
MB60	Textile brake—an emergency one-time use, modular braking system employing the tearing of specially woven textile straps to absorb the kinetic energy.
E5/E5-1/E5-3	Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100 HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet overrun that is not capable of withstanding the aircraft weight. These ratings are published under Military Service.

## FOREIGN CABLE

<u>TYPE</u>	<u>DESCRIPTION</u>	<u>US EQUIVALENT</u>
44B-3H	Rotary Hydraulic (Water Brake)	
CHAG	Chain	E-5

## UNI-DIRECTIONAL BARRIER

<u>TYPE</u>	<u>DESCRIPTION</u>
MA-1A	Web barrier between stanchions attached to a chain energy absorber.
BAK-15	Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction, chain). Designed for wing engagement.

NOTE: Landing short of the runway threshold on a runway with a BAK-15 in the underrun is a significant hazard. The barrier in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway threshold can cause damage to the barrier and substantial damage to the aircraft.

## OTHER

<u>TYPE</u>	<u>DESCRIPTION</u>
EMAS	Engineered Material Arresting System, located beyond the departure end of the runway, consisting of high energy absorbing materials which will crush under the weight of an aircraft.

**23 MILITARY SERVICE**

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

**24 JET AIRCRAFT STARTING UNITS (JASU)**

The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35-1-7.)

## ELECTRICAL STARTING UNITS:

A/M32A-86	AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire DC: 28v, 1500 amp, 72 kw (with TR pack)
MC-1A	AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire DC: 28v, 500 amp, 14 kw
MD-3	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus
MD-3A	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus
MD-3M	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 500 amp, 15 kw

MD-4	AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5 kva, 0.8 pf, 520 amp, 2 wire
<b>AIR STARTING UNITS</b>	
AM32-95	150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- 2 psia
AM32A-95	150 +/- 5 lb/min @ 49 +/- 2 psia (35 +/- 2 psig)
LASS	150 +/- 5 lb/min @ 49 +/- 2 psia
MA-1A	82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press
MC-1	15 cfm, 3500 psia
MC-1A	15 cfm, 3500 psia
MC-2A	15 cfm, 200 psia
MC-11	8,000 cu in cap, 4000 psig, 15 cfm
<b>COMBINED AIR AND ELECTRICAL STARTING UNITS:</b>	
AGPU	AC: 115/200v, 400 cycle, 3 phase, 30 kw gen DC: 28v, 700 amp AIR: 60 lb/min @ 40 psig @ sea level
AM32A-60*	AIR: 120 +/- 4 lb/min (1644 +/- 55 cfm) at 49 +/- 2 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva DC: 28v, 500 amp, 15 kw
AM32A-60A	AIR: 150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- 2 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw
AM32A-60B*	AIR: 130 lb/min, 50 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw
*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of electrical power available.	
<b>USN JASU</b>	
<b>ELECTRICAL STARTING UNITS:</b>	
NC-8A/A1	DC: 500 amp constant, 750 amp intermittent, 28v; AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz.
NC-10A/A1/B/C	DC: 750 amp constant, 1000 amp intermittent, 28v; AC: 90 kva, 115/200v, 3 phase, 400 Hz.
<b>AIR STARTING UNITS:</b>	
GTC-85/GTE-85	120 lbs/min @ 45 psi.
MSU-200NAV/A/U47A-5	204 lbs/min @ 56 psia.
WELLS AIR START SYSTEM	180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability.
<b>COMBINED AIR AND ELECTRICAL STARTING UNITS:</b>	
NCPP-105/RCPT	180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC, 30 kva.
<b>JASU (ARMY)</b>	
59B2-1B	28v, 7.5 kw, 280 amp.
<b>OTHER JASU</b>	
<b>ELECTRICAL STARTING UNITS (DND):</b>	
CE12	AC 115/200v, 140 kva, 400 Hz, 3 phase
CE13	AC 115/200v, 60 kva, 400 Hz, 3 phase
CE14	AC/DC 115/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp
CE15	DC 22-35v, 500 amp continuous 1100 amp intermittent
CE16	DC 22-35v, 500 amp continuous 1100 amp intermittent soft start
<b>AIR STARTING UNITS (DND):</b>	
CA2	ASA 45.5 psig, 116.4 lb/min
<b>COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)</b>	
CEA1	AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp AIR 112.5 lb/min, 47 psig
<b>ELECTRICAL STARTING UNITS (OTHER)</b>	
C-26	28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire
C-26-B, C-26-C	28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire
E3	DC 28v/10kw
<b>AIR STARTING UNITS (OTHER):</b>	
A4	40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B)
MA-1	150 Air HP, 115 lb/min 50 psia
MA-2	250 Air HP, 150 lb/min 75 psia
<b>CARTRIDGE:</b>	
MXU-4A	USAF

**(25) FUEL—MILITARY**

Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown. Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at [www.desc.dla.mil/Static/ProductsAndServices.asp](http://www.desc.dla.mil/Static/ProductsAndServices.asp); click on the Commercial Airports button.

See legend item 14 for fuel code and description.

**(26) SUPPORTING FLUIDS AND SYSTEMS—MILITARY****CODE**

ADI	Anti-Detonation Injection Fluid—Reciprocating Engine Aircraft.
W	Water Thrust Augmentation—Jet Aircraft.
WAI	Water-Alcohol Injection Type, Thrust Augmentation—Jet Aircraft.
SP	Single Point Refueling.
PRESAIR	Air Compressors rated 3,000 PSI or more.
De-Ice	Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243).

**OXYGEN:**

LPOX	Low pressure oxygen servicing.
HPOX	High pressure oxygen servicing.
LHOX	Low and high pressure oxygen servicing.
LOX	Liquid oxygen servicing.
ORXB	Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be replenished only by replacement of cylinders.)
OX	Indicates oxygen servicing when type of servicing is unknown.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available;

LHOXRB	Low and high pressure oxygen servicing and replacement bottles;
LPOXRB	Low pressure oxygen replacement bottles only, etc.

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

**NITROGEN:**

LPNIT	Low pressure nitrogen servicing.
HPNIT	High pressure nitrogen servicing.
LHNIT	Low and high pressure nitrogen servicing.

**(27) OIL—MILITARY**

US AVIATION OILS (MIL SPECS):

CODE	GRADE, TYPE
O-113	1065, Reciprocating Engine Oil (MIL-L-6082)
O-117	1100, Reciprocating Engine Oil (MIL-L-6082)
O-117+	1100, O-117 plus cyclohexanone (MIL-L-6082)
O-123	1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III)
O-128	1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II)
O-132	1005, Jet Engine Oil (MIL-L-6081)
O-133	1010, Jet Engine Oil (MIL-L-6081)
O-147	None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic
O-148	None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil
O-149	None, Aircraft Turbine Engine Synthetic, 7.5c St
O-155	None, MIL-L-6086C, Aircraft, Medium Grade
O-156	None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engines
JOAP/SOAP	Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request. (JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service supported program.)

**(28) TRANSIENT ALERT (TRAN ALERT)—MILITARY**

Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been accomplished.

## 29 AIRPORT REMARKS

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum services (e.g., repairs, fuel, transportation).

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft. Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication.

Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this publication for additional information.

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

## 30 MILITARY REMARKS

Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military.

Type of restrictions:

CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area.

OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircrews and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received from the airfield manager.

AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated.

PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11-204, AR 95-27, OPNAVINST 3710.7.

Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on board are designated Code 6 or higher as explained in AFJMAN 11-213, AR 95-11, OPNAVINST 3722-8J. Official Business Only or PPR do not preclude the use of the airport as an alternate for IFR flights.

## 31 WEATHER DATA SOURCES

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS—Automated Weather Observing System

AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2—reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data.

See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

HIWAS—See RADIO AIDS TO NAVIGATION

LAWRS—Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision, temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers. SAWRS—identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current weather information.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone.

TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP—indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.

## **32 COMMUNICATIONS**

Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows:

Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS) and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will be shown as CTAF/UNICOM 122.8.

The FSS telephone nationwide is toll free 1-800-WX-BRIEF (1-800-992-7433). When the FSS is located on the field it will be indicated as "on arpt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available.

FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation. (See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by calling the telephone numbers listed.

Remote Communications Outlet (RCO)—An unmanned air/ground communications facility that is remotely controlled and provides UHF or VHF communications capability to extend the service range of an FSS.

Civil Communications Frequencies—Civil communications frequencies used in the FSS air/ground system are operated on 122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

- a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.
- b. 122.2 is assigned as a common enroute frequency.
- c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed.
- d. 122.1 is the primary receive-only frequency at VOR's.
- e. Some FSS's are assigned 50 kHz frequencies in the 122-126 MHz band (eg. 122.45). Pilots using the FSS A/G system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remote facility through which they wish to communicate.

Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR facilities.

Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

### **TERMINAL SERVICES**

SFA—Single Frequency Approach.

CTAF—A program designed to get all vehicles and aircraft at airports without an operating control tower on a common frequency.

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via landline & data link communications and voice message within range of existing transmitters.

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information.

PTD—Pilot to Dispatcher.

APP CON—Approach Control. The symbol **Ⓡ** indicates radar approach control.

TOWER—Control tower.


GCA—Ground Control Approach System.

GND CON—Ground Control.

GCO—Ground Communication Outlet—An unstaffed, remotely controlled, ground/ground communications facility. Pilots at uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the



VHF radio to contact the appropriate ATC facility or six "key clicks" to contact the FSS. The GCO system is intended to be used only on the ground.

DEP CON—Departure Control. The symbol  indicates radar departure control.

CLNC DEL—Clearance Delivery.

PRE TAXI CLNC—Pre taxi clearance.

VFR ADVSY SVC—VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV—Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or hours of operation as "Wx obsn svc 1900-0000Z+" or "other times" may be used when no specific time is given. PMSV facilities manned by forecasters are considered "Full Service". PMSV facilities manned by weather observers are listed as "Limited Service".

OPS—Operations followed by the operator call sign in parenthesis.

CON

RANGE

FLT FLW—Flight Following

MEDIVAC

NOTE: Communication frequencies followed by the letter "X" indicate frequency available on request.

## AIRSPACE

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times.

Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown.

CLASS B—Radar Sequencing and Separation Service for all aircraft in CLASS B airspace.

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

**AIRSPACE: CLASS C** svc "times" ctc **APP CON** other times CLASS E:

or

**AIRSPACE: CLASS D** svc "times" other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace beginning at either 700' or 1200' AGL. This will be formatted as:

**AIRSPACE: CLASS C** svc "times" ctc **APP CON** other times CLASS G, with CLASS E 700' (or 1200') AGL & abv:

or

**AIRSPACE: CLASS D** svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv:

or

**AIRSPACE: CLASS E** svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv.

**NOTE: AIRSPACE SVC "TIMES" INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS.** Surface area arrival extensions for instrument approach procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E airspace.

**NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE, DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.**

Class E 700' AGL (shown as magenta vignette on sectional charts) and 1200' AGL (blue vignette) areas are designated when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless otherwise specified, these 700'/1200' AGL Class E airspace areas remain in effect continuously, regardless of airport operating hours or surface area status. These transition areas should not be confused with surface areas or arrival extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)



## CONTINUED FROM PRECEDING PAGE

The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations.

AB _____	Automatic Weather Broadcast.
DF _____	Direction Finding Service.
DME _____	UHF standard (TACAN compatible) distance measuring equipment.
DME(Y) _____	UHF standard (TACAN compatible) distance measuring equipment that require TACAN to be placed in the "Y" mode to receive DME.
GS _____	Glide slope.
H _____	Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM at all altitudes).
HH _____	Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes).
H-SAB _____	Non-directional radio beacons providing automatic transcribed weather service.
ILS _____	Instrument Landing System (voice, where available, on localizer channel).
IM _____	Inner marker.
ISMLS _____	Interim Standard Microwave Landing System.
LDA _____	Localizer Directional Aid.
LMM _____	Compass locator station when installed at middle marker site (15 NM at all altitudes).
LOM _____	Compass locator station when installed at outer marker site (15 NM at all altitudes).
MH _____	Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes).
MLS _____	Microwave Landing System.
MM _____	Middle marker.
OM _____	Outer marker.
S _____	Simultaneous range homing signal and/or voice.
SABH _____	Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts.
SDF _____	Simplified Direction Facility.
TACAN _____	UHF navigational facility-omnidirectional course and distance information.
VOR _____	VHF navigational facility-omnidirectional course only.
VOR/DME _____	Collocated VOR navigational facility and UHF standard distance measuring equipment.
VORTAC _____	Collocated VOR and TACAN navigational facilities.
W _____	Without voice on radio facility frequency.
Z _____	VHF station location marker at a LF radio facility.

## ILS FACILITY PERFORMANCE CLASSIFICATION CODES

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I, II, or III; the lowest minima on published or unpublished procedures supported by the ILS.

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A – 4 NM prior to runway threshold, B – 3500 ft prior to runway threshold, C – glide angle dependent but generally 750–1000 ft prior to threshold, T – runway threshold, D – 3000 ft after runway threshold, and E – 2000 ft prior to stop end of runway.

ILS information is tabulated as indicated in the following sample:

ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.

ILS Facility Performance  
Classification Code

## FREQUENCY PAIRING PLAN AND MLS CHANNELING

MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL	MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL	MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL
500	108.10	18X	568	109.45	31Y	636	114.15	88Y
502	108.30	20X	570	109.55	32Y	638	114.25	89Y
504	108.50	22X	572	109.65	33Y	640	114.35	90Y
506	108.70	24X	574	109.75	34Y	642	114.45	91Y
508	108.90	26X	576	109.85	35Y	644	114.55	92Y
510	109.10	28X	578	109.95	36Y	646	114.65	93Y
512	109.30	30X	580	110.05	37Y	648	114.75	94Y
514	109.50	32X	582	110.15	38Y	650	114.85	95Y
516	109.70	34X	584	110.25	39Y	652	114.95	96Y
518	109.90	36X	586	110.35	40Y	654	115.05	97Y
520	110.10	38X	588	110.45	41Y	656	115.15	98Y
522	110.30	40X	590	110.55	42Y	658	115.25	99Y
524	110.50	42X	592	110.65	43Y	660	115.35	100Y
526	110.70	44X	594	110.75	44Y	662	115.45	101Y
528	110.90	46X	596	110.85	45Y	664	115.55	102Y
530	111.10	48X	598	110.95	46Y	666	115.65	103Y
532	111.30	50X	600	111.05	47Y	668	115.75	104Y
534	111.50	52X	602	111.15	48Y	670	115.85	105Y
536	111.70	54X	604	111.25	49Y	672	115.95	106Y
538	111.90	56X	606	111.35	50Y	674	116.05	107Y
540	108.05	17Y	608	111.45	51Y	676	116.15	108Y
542	108.15	18Y	610	111.55	52Y	678	116.25	109Y
544	108.25	19Y	612	111.65	53Y	680	116.35	110Y
546	108.35	20Y	614	111.75	54Y	682	116.45	111Y
548	108.45	21Y	616	111.85	55Y	684	116.55	112Y
550	108.55	22Y	618	111.95	56Y	686	116.65	113Y
552	108.65	23Y	620	113.35	80Y	688	116.75	114Y
554	108.75	24Y	622	113.45	81Y	690	116.85	115Y
556	108.85	25Y	624	113.55	82Y	692	116.95	116Y
558	108.95	26Y	626	113.65	83Y	694	117.05	117Y
560	109.05	27Y	628	113.75	84Y	696	117.15	118Y
562	109.15	28Y	630	113.85	85Y	698	117.25	119Y
564	109.25	29Y	632	113.95	86Y			
566	109.35	30Y	634	114.05	87Y			

## FREQUENCY PAIRING PLAN AND MLS CHANNELING

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL
2X	134.5	-	19Y	108.25	544	25X	108.80	-
2Y	134.55	-	20X	108.30	502	25Y	108.85	556
11X	135.4	-	20Y	108.35	546	26X	108.90	508
11Y	135.45	-	21X	108.40	-	26Y	108.95	558
12X	135.5	-	21Y	108.45	548	27X	109.00	-
12Y	135.55	-	22X	108.50	504	27Y	109.05	560
17X	108.00	-	22Y	108.55	550	28X	109.10	510
17Y	108.05	540	23X	108.60	-	28Y	109.15	562
18X	108.10	500	23Y	108.65	552	29X	109.20	-
18Y	108.15	542	24X	108.70	506	29Y	109.25	564
19X	108.20	-	24Y	108.75	554	30X	109.30	512

TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL
30Y	109.35	566	63X	133.60	-	95Y	114.85	650
31X	109.40	-	63Y	133.65	-	96X	114.90	-
31Y	109.45	568	64X	133.70	-	96Y	114.95	652
32X	109.50	514	64Y	133.75	-	97X	115.00	-
32Y	109.55	570	65X	133.80	-	97Y	115.05	654
33X	109.60	-	65Y	133.85	-	98X	115.10	-
33Y	109.65	572	66X	133.90	-	98Y	115.15	656
34X	109.70	516	66Y	133.95	-	99X	115.20	-
34Y	109.75	574	67X	134.00	-	99Y	115.25	658
35X	109.80	-	67Y	134.05	-	100X	115.30	-
35Y	109.85	576	68X	134.10	-	100Y	115.35	660
36X	109.90	518	68Y	134.15	-	101X	115.40	-
36Y	109.95	578	69X	134.20	-	101Y	115.45	662
37X	110.00	-	69Y	134.25	-	102X	115.50	-
37Y	110.05	580	70X	112.30	-	102Y	115.55	664
38X	110.10	520	70Y	112.35	-	103X	115.60	-
38Y	110.15	582	71X	112.40	-	103Y	115.65	666
39X	110.20	-	71Y	112.45	-	104X	115.70	-
39Y	110.25	584	72X	112.50	-	104Y	115.75	668
40X	110.30	522	72Y	112.55	-	105X	115.80	-
40Y	110.35	586	73X	112.60	-	105Y	115.85	670
41X	110.40	-	73Y	112.65	-	106X	115.90	-
41Y	110.45	588	74X	112.70	-	106Y	115.95	672
42X	110.50	524	74Y	112.75	-	107X	116.00	-
42Y	110.55	590	75X	112.80	-	107Y	116.05	674
43X	110.60	-	75Y	112.85	-	108X	116.10	-
43Y	110.65	592	76X	112.90	-	108Y	116.15	676
44X	110.70	526	76Y	112.95	-	109X	116.20	-
44Y	110.75	594	77X	113.00	-	109Y	116.25	678
45X	110.80	-	77Y	113.05	-	110X	116.30	-
45Y	110.85	596	78X	113.10	-	110Y	116.35	680
46X	110.90	528	78Y	113.15	-	111X	116.40	-
46Y	110.95	598	79X	113.20	-	111Y	116.45	682
47X	111.00	-	79Y	113.25	-	112X	116.50	-
47Y	111.05	600	80X	113.30	-	112Y	116.55	684
48X	111.10	530	80Y	113.35	620	113X	116.60	-
48Y	111.15	602	81X	113.40	-	113Y	116.65	686
49X	111.20	-	81Y	113.45	622	114X	116.70	-
49Y	111.25	604	82X	113.50	-	114Y	116.75	688
50X	111.30	532	82Y	113.55	624	115X	116.80	-
50Y	111.35	606	83X	113.60	-	115Y	116.85	690
51X	111.40	-	83Y	113.65	626	116X	116.90	-
51Y	111.45	608	84X	113.70	-	116Y	116.95	692
52X	111.50	534	84Y	113.75	628	117X	117.00	-
52Y	111.55	610	85X	113.80	-	117Y	117.05	694
53X	111.60	-	85Y	113.85	630	118X	117.10	-
53Y	111.65	612	86X	113.90	-	118Y	117.15	696
54X	111.70	536	86Y	113.95	632	119X	117.20	-
54Y	111.75	614	87X	114.00	-	119Y	117.25	698
55X	111.80	-	87Y	114.05	634	120X	117.30	-
55Y	111.85	616	88X	114.10	-	120Y	117.35	-
56X	111.90	538	88Y	114.15	636	121X	117.40	-
56Y	111.95	618	89X	114.20	-	121Y	117.45	-
57X	112.00	-	89Y	114.25	638	122X	117.50	-
57Y	112.05	-	90X	114.30	-	122Y	117.55	-
58X	112.10	-	90Y	114.35	640	123X	117.60	-
58Y	112.15	-	91X	114.40	-	123Y	117.65	-
59X	112.20	-	91Y	114.45	642	124X	117.70	-
59Y	112.25	-	92X	114.50	-	124Y	117.75	-
60X	133.30	-	92Y	114.55	644	125X	117.80	-
60Y	133.35	-	93X	114.60	-	125Y	117.85	-
61X	133.40	-	93Y	114.65	646	126X	117.90	-
61Y	133.45	-	94X	114.70	-	126Y	117.95	-
62X	133.50	-	94Y	114.75	648			
62Y	133.55	-	95X	114.80	-			

**(35) COMM/NAV/WEATHER REMARKS:**

These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

**ABBEVILLE MUNI** (ØJØ) 3 N UTC-6(-5DT) N31°36.01' W85°14.29'

NEW ORLEANS

468 NOTAM FILE ANB

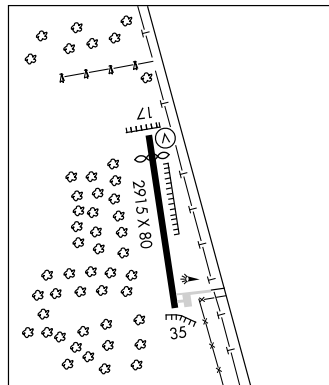
**RWY 17-35:** H2915X80 (ASPH) MIRL

**RWY 17:** VASI(V2L)—GA 3.0° TCH 30'. Thld dspcd 300'. Trees.

**RWY 35:** Tree.

**AIRPORT REMARKS:** Unattended. Rwy 17 VASI OTS indef.

**COMMUNICATIONS:** CTAF/UNICOM 122.8



**ADDISON MUNI** (2A8) 1 NE UTC-6(-5DT) N34°12.56' W87°09.48'

ATLANTA

786 NOTAM FILE ANB

Not insp.

**RWY 04-22:** 2631X112 (TURF)

**RWY 04:** Trees.

**RWY 22:** Trees.

**AIRPORT REMARKS:** Unattended. Rwy 04 marked by white cones with black tips. Length and width subject to change without notice.

**COMMUNICATIONS:** CTAF 122.9

## ALABASTER

**SHELBY CO** (EET) 4 SE UTC-6(-5DT) N33°10.67' W86°46.99'

ATLANTA

586 B S4 **FUEL** 100LL, JET A NOTAM FILE EET

H-6K, 9A, L-18H

**RWY 16-34:** H5000X75 (ASPH) S-16 MIRL 0.3% up SE.

IAP

**RWY 16:** REIL. PAPI(P4L)—GA 3.5° TCH 57'. Bldg.

**RWY 34:** REIL. PAPI(P4L). Trees. Rgt tfc.

**AIRPORT REMARKS:** Attended 1300Z-0100Z±. Fuel 24 hr credit card svc avbl. Balloon ops, hang gliding, parachute jumping and motorized parachutes ops are prohibited. Noise abatement area NW of arpt. ACTIVATE MIRL Rwy 16-34, REIL Rwy 16 and Rwy 34 and PAPI

Rwys 16 and 34—CTAF.

**WEATHER DATA SOURCES:** ASOS 134.325 (205)663-5881.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

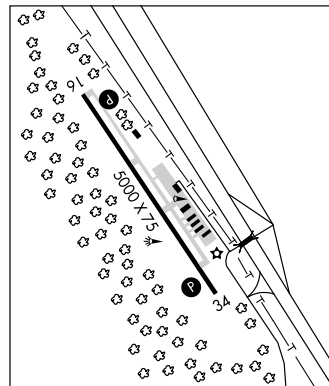
® **BIRMINGHAM APP/DEP CON** 123.8

**GCO** 121.725 (BHM CLNC DEL)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

**BROOKWOOD (L) VORTACW** 111.0 OKW Chan 47 N33°14.37'

W87°15.00' 099° 23.8 NM to fld. 649/00E.



**ALBANYVILLE RGNL—THOMAS J BRUMLIK FLD** (8A0) 3 SW UTC-6(-5DT)ATLANTA  
H-6K, 9A, L-181  
IAP

N34°13.75' W86°15.35'

1032 B S4 FUEL 100LL, JET A NOTAM FILE 8A0

RWY 05-23: H6114X100 (ASPH-GRVD) S-60, D-90, DT-130

MIRL 0.5% up NE

RWY 05: PAPI(P2L). Trees.

RWY 23: REIL. PAPI(P2L). Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1300Z-dusk, Sun 1830Z-dusk. Jet A premixed with prist. Unrestricted vehicle access. MIRL Rwy 05-23 preset med ints dusk-0500Z, to increase ints and ACTIVATE after 0500Z-CTAF. PAPI Rwy 05 and Rwy 23 opr dusk-0500Z; after 0500Z ACTIVATE-CTAF. ACTIVATE REIL Rwy 23-CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.575 (256) 891-8259.**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓡ BIRMINGHAM APP/DEP CON 132.15

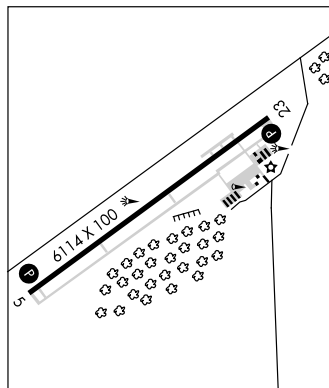
**RADIO AIDS TO NAVIGATION:** NOTAM FILE GAD.

GADSDEN (L) VOR/DME 112.3 GAD Chan 70 N33°58.58'

W86°05.01' 329° 17.4 NM to fld. 560/02E.

SARATOGA NDB (MHW) 296 ARF N34°15.17' W86°13.41' 230°

2.1 NM to fld. NOTAM FILE ANB.

**ALEXANDER CITY** N32°52.76' W85°57.68' NOTAM FILE ANB.ATLANTA  
L-181

NDB (MHW) 382 DER 359° 2.1 NM to Thomas C Russell Fld.

**ALEXANDER CITY****THOMAS C RUSSELL FLD** (ALX) 2 SW UTC-6(-5DT) N32°54.88' W85°57.78'ATLANTA  
H-9A, L-181  
IAP

686 B S4 FUEL 100LL, JET A NOTAM FILE ANB

RWY 18-36: H5425X96 (ASPH) S-30 MIRL 1.4% up N

RWY 18: PAPI(P2L). Thld dsplcd 619'. Trees.

RWY 36: REIL. PAPI(P2L)—GA 3.0°TCH 25'. Trees.

**AIRPORT REMARKS:** Attended 1330-2300Z. Fuel 24 hr credit card svc avbl. REIL Rwy 36 OTS indef. MIRL Rwy 18-36 ACTIVATE-CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.325 (256) 329-1820.**COMMUNICATIONS:** CTAF/UNICOM 122.7

Ⓡ MONTGOMERY APP/DEP CON 121.2 (1200-0500Z)

Ⓡ ATLANTA CENTER APP/DEP CON 120.45 (0500-1200Z)

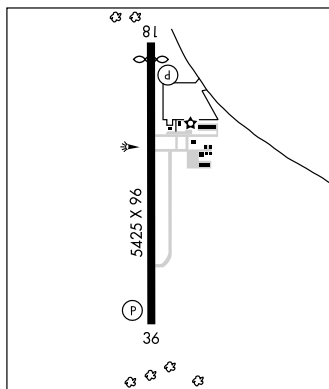
**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

TUSKEGEE (L) VOR/DME 117.3 TGE Chan 120 N32°29.09'

W85°40.16' 328° 29.7 NM to fld. 490/02E.

ALEXANDER CITY NDB (MHW) 382 DER N32°52.76'

W85°57.68' 359° 2.1 NM to fld.



**ALICEVILLE****GEORGE DOWNER** (AIV) 2 SW UTC-6(-5DT) N33°06.39' W88°11.87'

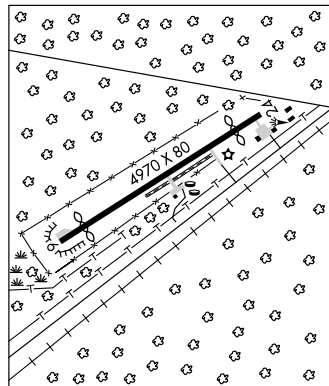
MEMPHIS

150 B NOTAM FILE ANB

L-18H

**RWY 06-24:** H4970X80 (ASPH) LIRL**RWY 06:** Thld dsplcd 193'.**RWY 24:** Thld dsplcd 613'. Brush.**AIRPORT REMARKS:** Unattended. Rwy 06-24 cracked with vegetation and loose aggregate.**COMMUNICATIONS:** CTAF/UNICOM: 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE GWO.**BIGBEE (L) VORTACW** 116.2 IGB Chan 109 N33°29.13'

W88°30.82' 141° 27.7 NM to fld. 240/04E. HIWAS.

**ANDALUSIA** N31°18.57' W86°23.53' NOTAM FILE ANB.

NEW ORLEANS

(T) **VORW** 110.2 UIA at South Alabama Rgnl at Bill Benton Fld. 330/00E. Unmonitored.

L-22H

VOR unusable:

360°-009° byd 10 NM,

110°-130°.

010°-080°

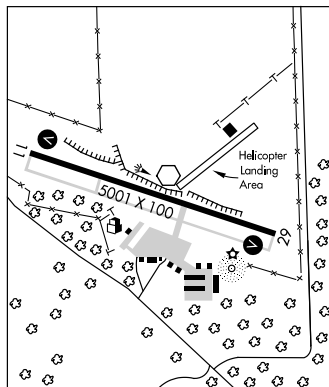
**ANDALUSIA-OPP****SOUTH ALABAMA RGNL AT BILL BENTON FLD** (79J) CIV/MIL 4 E UTC-6(-5DT)

NEW ORLEANS

H-6K, 9A, L-22H

DIAP

N31°18.53' W86°23.63'

310 B S4 **FUEL** 100LL, JET A OX 3, 4 NOTAM FILE ANB**RWY 11-29:** H5001X100 (ASPH) S-30 MIRL**RWY 11:** VASI(V4L)—GA 3.0° TCH 40'. Tree.**RWY 29:** VASI(V4L)—GA 3.0° TCH 40'.**MILITARY SERVICE: FUEL A+** (NC-100LL, A) Military contract fuel avbl Mon-Fri 1300-0600Z†, Sat-Sun 1400-0000Z† other times call 334-222-0638.**AIRPORT REMARKS:** Attended Mon-Sat 1400-2230Z†. After hrs avbl; call 334-222-0638/334-427-0733. When twr clsd **ACTIVATE** MIRL Rwy 11-29 and VASI Rwy 11 and 29—119.55.**MILITARY REMARKS:** Mil opr hrs Mon-Fri 1430-2200Z† exc holidays and by NOTAM. **MISC** Wx observer avbl Mon-Fri 1430-2230Z†, exc hol. Wx observation augmented Mon-Fri 1430-2230Z†, exc hol. Other times wx observation automated. Ctc Cairns AAF for forecast service Mon 0600Z†-Sat 0700Z†, except holidays. Wx observation visibility restricted south-southeast due to building. Remote briefing svc avbl 26 OWS, Barksdale AFB, DSN 781-4775, C866-223-9328 (toll free).**WEATHER DATA SOURCES:** ASOS 134.875 (334) 222-9770.**COMMUNICATIONS:** CTAF 119.55 **UNICOM** 122.8® **CAIRNS APP/DEP CON** 133.45 239.4 (Sun-Mon 1200-0500Z†, Tue-Sat 24 hrs), other times ctc® **JACKSONVILLE CENTER APP/DEP CON** 134.3**ANDALUSIA-OPP TOWER** 119.55 317.75 (1430-2200Z†) Mon-Fri except holidays and by NOTAM.**GND CON** 121.9 273.45**AIRSPACE:** CLASS D svc Mon-Fri 1430-2300Z†, except holidays other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE CEW.**CRESTVIEW (H) VORTACW** 115.9 CEW Chan 106 N30°49.57' W86°40.75' 024° 32.4 NM to fld. 255/03E. HIWAS.**ANDALUSIA (T) VORW** 110.2 UIA N31°18.57' W86°23.53' at fld. NOTAM FILE ANB. Unmonitored.**JUDD NDB (MHW)** 264 JUY N31°18.31' W86°23.45' at fld. NOTAM FILE ANB. Unmonitored Sun and Mon 0500-1200Z†.



**ANNISTON METROPOLITAN** (ANB) 5 SW UTC-6(-5DT) N33°35.29' W85°51.49'

ATLANTA

612 B S4 FUEL 100LL, JET A OX 3, 4 ARFF Index—See Remarks NOTAM FILE ANB H-9A, 12F, L-181

RWY 05-23: H7000X150 (ASPH-GRVD) S-90, D-160, ST-175, DT-260, DDT-620 HIRL IAP

RWY 05: MALSR. PAPI(P4L). Rgt tfc.

RWY 23: REIL. PAPI(P4L). Trees.

**AIRPORT REMARKS:** Attended 1330-0000Z†. For fuel after hrs call 256-835-4410. Svc fee 0000-1330Z†. Birds on and invof Rwy 05-23. For FBO svcs during arpt attendance hrs call 256-831-4410. Class I, ARFF Index A. CLOSED to air carrier ops with more than 30 passenger seats except PPR call 256-831-4410. Index B ARFF equipment avbl all hrs. ACTIVATE MALSR Rwy 05, HIRL Rwy 05-23, PAPI Rwy 05 and Rwy 23 and REIL Rwy 23—CTAF.

**WEATHER DATA SOURCES:** ASOS 119.675 (256)835-3931.**COMMUNICATIONS:** CTAF 123.6 UNICOM 123.0

RCO 123.6 122.2 (ANNISTON RADIO)

① BIRMINGHAM APP/DEP CON 125.45

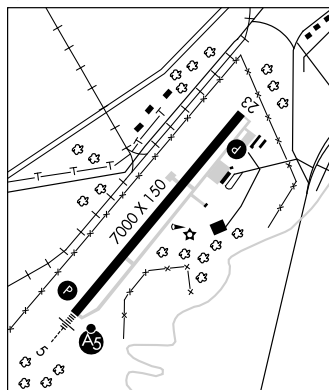
**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

TALLADEGA (L) VOR/DME 108.8 TDG Chan 25 N33°34.51'

W86°02.56' 083° 9.3 NM to fld. 530/02E.

BOGGA NDB (LOM) 211 AN N33°32.06' W85°55.85' 049° 4.9 NM to fld.

ILS 111.5 I-ANB Rwy 05. Class IA. LOM BOGGA NDB.

**COMM/NAV/WEATHER REMARKS:** Ctc Anniston Radio for airport advisory service on 123.6.**ARDMORE** (1M3) 2 SW UTC-6(-5DT) N34°58.67' W86°53.08'

ATLANTA

920 S4 NOTAM FILE ANB

RWY 01-19: 2700X100 (TURF)

RWY 01: Tree. RWY 19: Tree.

**AIRPORT REMARKS:** Attended Mon-Fri dalgt hrs. Rwy 01-19 marked with white cones and 2 inch PVC pipe.**COMMUNICATIONS:** CTAF/UNICOM 122.9**ASHLAND/LINEVILLE** (26A) 2 NE UTC-6(-5DT) N33°17.04' W85°48.54'

ATLANTA

L-181

1065 B NOTAM FILE ANB

RWY 09-27: H3997X80 (ASPH) S-20 MIRL

RWY 09: Thld dspcd 212'. Pole.

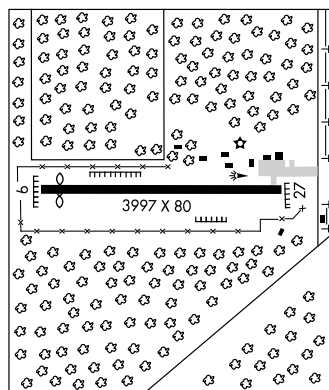
RWY 27: Pole.

**AIRPORT REMARKS:** Unattended. Rwy 09-27 lgtd thld W end relocated 212', 3785' of rwy lgtd at ngt. Rwy 09 dspcd thld marked with lgts only.

**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

TALLADEGA (L) VOR/DME 108.8 TDG Chan 25 N33°34.51'

W86°02.56' 144° 21 NM to fld. 530/02E.



**ATMORE MUNI** (ØR1) 3 E UTC-6(-5DT) N31°00.97' W87°26.81'

**NEW ORLEANS**

287 B S4 FUEL 100LL NOTAM FILE ANB

L-21C, 22H

RWY 18-36: H4952X80 (ASPH) S-16 MRL

IAP

RWY 18: PAPI(P2L). Thld dsplcd 270'. Road.

RWY 36: PAPI(P2L). Thld dsplcd 176'. P-line.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 18: TORA-4952 TODA-4952 ASDA-4776 LDA-4506

RWY 36: TORA-4952 TODA-4952 ASDA-4682 LDA-4506

**AIRPORT REMARKS:** Attended Mon-Fri 1300-2300Z†, weekends on call.

ACTIVATE MRL Rwy 18-36 and PAPI Rwy 18 and 36—CTAF.

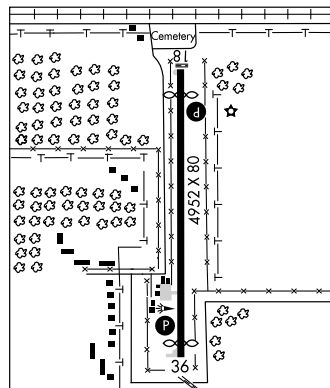
**COMMUNICATIONS:** CTAF/UNICOM 122.8

PENSACOLA APP/DEP CON 126.85

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

MONROEVILLE (L) VORTAC 116.8 MVC Chan 115 N31°27.63'

W87°21.17' 186° 27 NM to fld. 420/04E.



**AUBURN-OPELIKA ROBERT G. PITTS** (AUO) 2 E UTC-6(-5DT) N32°36.91' W85°26.04'

**ATLANTA**

777 B S2 FUEL 100LL, JET A OX 1,2 TPA—See Remarks NOTAM FILE AUO

H-9A, L-181

RWY 18-36: H5264X100 (ASPH) S-45, D-75, ST-95 HIRL 0.9% up N

IAP

RWY 18: Trees. RWY 36: MALSF, PAPI(P4L)—GA 3.0°.

RWY 11-29: H4000X75 (ASPH) S-25, D-42 MRL

RWY 11: Trees.

RWY 29: PAPI(P4L)—GA 3.0° TCH 22'. Thld dsplcd 297'. Pole.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-0100Z†, Sat-Sun

1400-2300Z†. Fuel service after hrs and holidays

334-501-3100. Student flt training during dalgt hrs, Mon-Fri.

Coyotes and deer occasionally on and invof arpt. TPA—for acct

139 Kts and less 1577(800), 140 Kts and above 1777(1000). Jet

start capabilities avbl. ACTIVATE HIRL Rwy 18-36, MRL Rwy

11-29, PAPI Rwy 29 and Rwy 36 and MALSF Rwy 36—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 132.575 (334) 821-4932.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓡ ATLANTA APP/DEP CON 125.5 (blo 7000') 126.55 (7000' & abv)  
(1015-0200Z†) CLNC DEL 118.7

ATLANTA CENTER APP/DEP CON 120.45 (0200-1015Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CSG.

COLUMBUS (L) VORTAC 117.1 CSG Chan 118 N32°36.92'

W85°01.06' 269° 21.1 NM to fld. 630/01E.

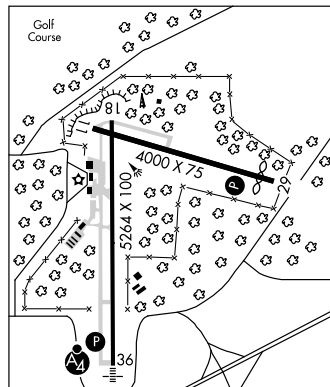
TUSKEGEE (L) VOR/DME 117.3 TGE Chan 120 N32°29.09' W85°40.16' 055° 14.3 NM to fld. 490/02E.

NOTAM FILE ANB.

OPOLE NDB (LOM) 423 AU N32°30.55' W85°26.23' 001° 6.4 NM to fld.

ILS 110.1 I-AUO Rwy 36. LOM OPOLE NDB.

**COMM/NAV/WEATHER REMARKS:** Tmptry twr by NOTAM for special events.



**BAY MINETTE MUNI** (1R8) 3 SW UTC-6(-5DT) N30°52.22' W87°49.16'

NEW ORLEANS

248 B S4 FUEL 100LL, JET A, A+ NOTAM FILE ANB

H-6K, 8G, L-21C, 22H

RWY 08-26: H5500X79 (ASPH) S-28 MIRL 0.8% up E

IAP

RWY 08: REIL. PAPI(P2L). RWY 26: PAPI(P2L).

**AIRPORT REMARKS:** Attended 1400-0800Z†. For svc after hrs call 251-937-2900. UNICOM attended by ground personnel. High concentration of civilian flt training. ACTIVATE MIRL Rwy 08-26 and PAPI Rwy 08 and Rwy 26—CTAF. Rwy 08 REIL OTS indef. Rwy 26 PAPI OTS indef.

**COMMUNICATIONS:** CTAF/UNICOM 122.8.

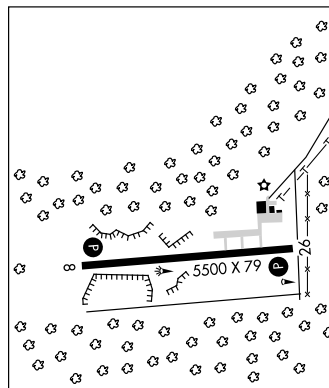
Ⓡ **MOBILE APP/DEP CON** 118.5 (1200-0500Z‡)

**HOUSTON CENTER APP/DEP CON** 127.65 (0500-1200Z‡)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

**SEMMES (H) VORTACW** 115.3 SJL Chan 100 N30°43.56'

W88°21.56' 068° 29.2 NM to fld. 190/05E.



## BAYOU LA BATRE

**ROY E. RAY** (5R7) 3 NE UTC-6(-5DT) N30°27.28' W88°12.63'

NEW ORLEANS

80 S2 FUEL 100LL, MOGAS NOTAM FILE ANB

RWY 18-36: 2000X150 (TURF)

RWY 18: Pole. RWY 36: Trees.

**AIRPORT REMARKS:** Attended on call. For arpt attendant call 334-824-4538. Parachute Jumping. Rwy 18-36 marked with white garbage can tops.

**COMMUNICATIONS:** CTAF 122.9

**BESSEMER** (EKY) 3 SE UTC-6(-5DT) N33°18.76' W86°55.58'

ATLANTA

700 B S4 FUEL 100LL, JET A+ NOTAM FILE ANB

H-6K, 9A, L-18H

RWY 05-23: H6007X100 (ASPH) S-60, D-60 MIRL

IAP

RWY 05: REIL. VASI(V2L).

RWY 23: REIL. VASI(V2L). Trees.

**AIRPORT REMARKS:** Attended 1300-0200Z†. Rwy 05 VASI and REIL OTS indef. Rwy 23 VASI and REIL OTS indef. ACTIVATE MIRL Rwy 05-23—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.825 (205)424-3127.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

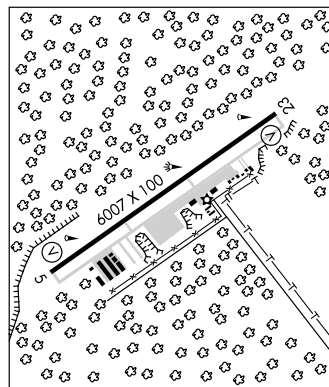
Ⓡ **BIRMINGHAM APP/DEP CON** 124.9 **CLNC DEL** 123.75

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

**BROOKWOOD (L) VORTACW** 111.0 OKW Chan 47 N33°14.37'

W87°15.00' 075° 16.9 NM to fld. 649/00E.

**ILS/DME** 111.75 I-EKY Chan 54(Y) Rwy 05. Glide slope unusable byd 4° rgt of course.



**BIBB CO** (See CENTREVILLE)

**BIRMINGHAM—SHUTTLESWORTH INTL** (BHM) 4 NE UTC-6(-5DT) N33°33.83' W86°45.14' ATLANTA  
 650 B S4 FUEL 100LL, JET A OX 1, 2 LRA Class I, ARFF Index C NOTAM FILE BHM H-6K, 9A, L-18H  
 RWY 06-24: H1200X150 (ASPH-GRVD) S-175, D-205, ST-175, DT-350 HIRL CL IAP, AD

RWY 06: ALSF2. TDZL. PAPI(P4L)—GA 2.8° TCH 39'.

RWY 24: MALSR. PAPI(P4L)—GA 3.0° TCH 50'. Thld dsplcd 1200'.

Tree. 0.7% down.

RWY 18-36: H7100X150 (ASPH-GRVD) S-75, D-170, ST-175,  
 DT-240 MIRL

RWY 18: REIL. PAPI(P4L)—GA 3.2° TCH 52'. Ground.

RWY 36: REIL. Trees.

**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 06	18-36	8700
RWY 36	06-24	5150

**AIRPORT REMARKS:** Attended continuously. Bird activity invof all rwys.

Twy F between twys G and B rstd to acft weighing 100,000 pounds or less. Twy N rstd to acft weighing 204,000 lbs or less. Twy M north of Rwy 06-24 rstd to acft 75,000 lbs or less. Twy G

restricted to acft 65,000 lbs or less. Twy A6 clsd indef. MALSR Rwy 24 controlled by twr but ops unmonitored. South ramp clsd to transient tfc permanently. Flight Notification Service (ADCUS) avbl.

**WEATHER DATA SOURCES:** ASOS (205) 591-6172. WSP.

**COMMUNICATIONS:** ATIS 119.4 UNICOM 122.95

RCO 122.2 123.65 (ANNISTON RADIO)

① APP/DEP CON 127.675 (231°-049°) 123.8 (050°-230°)

TOWER 119.9 118.25 GND CON 121.7 CLNC DEL 125.675

PRE-TAXI CLNC 125.675

**AIRSPACE:** CLASS C svc continuous etc APP CON

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

VULCAN (H) VORTAC 114.4 VUZ Chan 91 N33°40.21' W86°53.99' 129° 9.8 NM to fld. 750/02E. HIWAS.

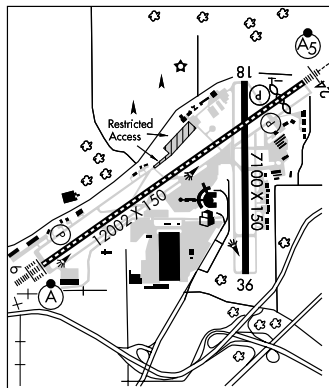
MC DEN NDB (HW/LOM) 224 BH N33°30.68' W86°50.74' 059° 5.6 NM to fld. NOTAM FILE BHM.

ROEBY NDB (LOM) 394 RO N33°36.46' W86°40.73' 235° 4.6 NM to fld. NOTAM FILE BHM.

ILS 110.3 I-BHM Rwy 06. CLASS IIE. LOM MC DEN NDB.

ILS/DME 109.5 I-ROE Chan 32 Rwy 24. CLASS IE. LOM ROEBY NDB.

ILS/DME 111.3 I-BXO Chan 50 Rwy 18. (LOC only).



**BLACKWELL FLD** (See OZARK)

**BLOOD** N31°49.82' W86°06.33' NOTAM FILE TOI.

NDB (MHW/LOM) 365 TO 070° 5.1 NM to Troy Muni.

NEW ORLEANS  
 L-181

**BOGGA** N33°32.06' W85°55.85' NOTAM FILE ANB.

NDB (LOM) 211 AN 049° 4.9 to Anniston Metropolitan.

ATLANTA  
 L-181

**BOLL WEEVIL** N31°20.36' W85°58.92' NOTAM FILE ANB.

NDB (MHW) 352 BVG 116° 4.8 NM to Enterprise Muni. Unmonitored Sun and Mon 0500-1200Z†.

Unusable byd 20 NM.

NEW ORLEANS  
 L-22H

**BRANTLEY** N31°33.71' W86°17.58' NOTAM FILE ANB.

NDB (MHW) 410 XBR 120° 34.4 NM to Cairns AAF. NDB unmonitored Sun and Mon 0500-1200Z†.

NEW ORLEANS  
 L-22H

**BREWTON MUNI** (12J) 3 S UTC-6(-5DT) N31°03.05' W87°03.96'

99 B S4 FUEL 100LL, JET A NOTAM FILE ANB

RWY 06-24: H5136X150 (ASPH) S-40, D-60

RWY 06: Trees. RWY 24: Trees.

RWY 12-30: H5001X150 (ASPH) S-40, D-60 MIRL

0.3% up SE

RWY 12: PAPI(P2L).

RWY 30: PAPI(P2L).

RWY 18-36: H3999X150 (ASPH)

RWY 18: Thld dsplcd 743'. Trees.

RWY 36: Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z, Sat 2030-2300Z. After hrs call 334-867-2124. Rwy 18-36 CLOSED indef. Rwy 36 no numbers; partial centerline. Rwy 06-24 fixed distance markers 500' from rwy ends. Rwy 12-30 fixed distance markers 500' from rwy ends. Military training acft monitor UNICOM and yield to all civilian ops. Military acft require prior coordination with NAS Whiting Fld, DSN 868-7654, C850-623-7645. ACTIVATE MIRL Rwy 12-30 and PAPI Rwy 12 and Rwy 30-CTAF.

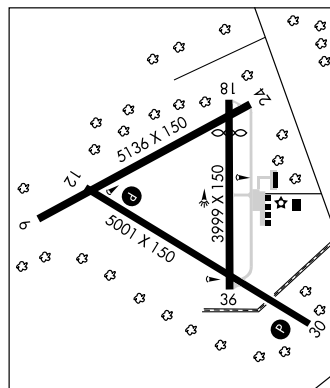
**WEATHER DATA SOURCES:** AWOS-3 119.325 (251) 809-2987.

**COMMUNICATIONS:** CTAF/UNICOM 122.725

Ⓡ JAX CENTER APP/DEP CON 120.2

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CEW.

CRESTVIEW (H) VORTACW 115.9 CEW Chan 106 N30°49.57' W86°40.75' 301° 24.1 NM to fld. 255/03E. HIWAS.



NEW ORLEANS

H-6K, 9A, L-21C, 22H  
IAP

**BROOKLEY** N30°36.76' W88°03.33' NOTAM FILE BFM.

(L) VORTAC 112.8 BFM Chan 75 318° 1.1 NM to Mobile Downtown. 30/04E.

VOR unusable byd 30 NM blo 2000' MSL.

RCO 122.1R 112.8T (ANNISTON RADIO) at Mobile Downtown.

NEW ORLEANS

L-21C, 22G

**BROOKWOOD** N33°14.37' W87°15.00' NOTAM FILE ANB.

(L) VORTACW 111.0 OKW Chan 47 075° 16.7 NM to Bessemer. 649/00E.

VORTAC unusable:

205°-220°.

ATLANTA

L-18H

**BRUNDIDGE MUNI** (60A) 1 NE UTC-6(-5DT) N31°43.97' W85°48.25'

476 NOTAM FILE ANB

RWY 05-23: H3000X80 (ASPH) S-15 MIRL

RWY 05: Trees. RWY 23: Tree.

**AIRPORT REMARKS:** Unattended. Arpt CLOSED indef. Extensive helicopter opr during summer months. Rwy 05-23 MIRL OTS indef. Rwy 05 low area 150' from thld to right. Rwy 05-23 cracked and deteriorating with low spots.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

WIREGRASS (L) VORTAC 111.6 RRS Chan 53 N31°17.08' W85°25.87' 323° 33 NM to fld. 347/02E. HIWAS.

SPRING HILL NDB(MHW) 281 XNE N31°41.06' W85°58.46' 075° 9.2 NM to fld. NOTAM FILE ANB.

NEW ORLEANS

L-18I

**BUTLER-CHOCTAW CO** (Ø9A) 5 NE UTC-6(-5DT) N32°07.16' W88°07.65'

MEMPHIS

134 B NOTAM FILE ANB

L-18H

RWY 11-29: H4080X80 (ASPH) S-15 MIRL 0.4% up E

IAP

RWY 11: Trees. RWY 29: VASI(V2L)—GA 3.0°TCH 27'. Trees.

AIRPORT REMARKS: Unattended. MIRL Rwy 11-29 OTS indef. VASI Rwy

29 OTS indef. ACTIVATE MIRL Rwy 11-29 and VASI Rwy

29—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

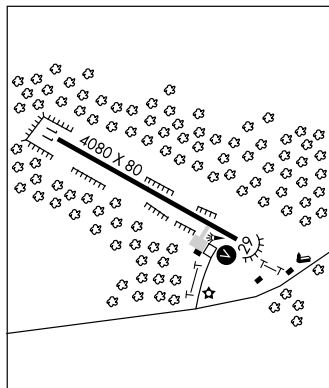
MERIDIAN APP/DEP CON 119.2 (1300-0500Z‡)

ATLANTA CENTER APP/DEP CON 120.55 (0500-1300Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE GWO.

KEWANEE (L) VORTAC 113.8 EWA Chan 85 N32°22.01'

W88°27.50' 127° 22.4 NM to fld. 300/04E.

**CAIRNS AAF** (FORT RUCKER) (OZR)(KOZR) A 6 S UTC-6(-5DT) N31°16.55' W85°42.80'

NEW ORLEANS

301 B NOTAM FILE OZR

Not insp.

H-9A, L-221

RWY 18-36: H5025X150 (ASPH) PCN 20 F/A/Y/T MIRL

DIAP, AD

RWY 06-24: H4546X150 (ASPH) PCN 41 F/B/Y/T HIRL

RWY 06: MALSR.

**MILITARY SERVICE: JASU** (MD-3) **FUEL** J8 + 100 AVCARDS and AIRCARDS not accepted. IDENTAPLATES for acft are accepted. The following are required and should be on these cards: DODAAC, APC. **OIL** O-156 **TRAN ALERT**

Svc avbl Mon-Fri 1200-0400Z‡, Sun 1400-2200Z‡.

**MILITARY REMARKS:** See FLIP AP/1 Fit Hazard for Fort Rucker and Supplementary Arpt Remarks for Cairns AAF. **RSTD** All tran acft 1 hr PPR. All RON acft, and arr/dep acft with code aboard ctc Base OPS DSN 558-8361/8433 C334-255-8361 24 hrs. **CAUTION** Possible hydroplaning due to standing water on intersection of Rwy 06-24 and Rwy 18-36 following rain. Intensive student training. **MISC** Acft inbound with codes ctc Base OPS 45 NM out. A tran acft crew member must remain with acft during refueling opr. Forecast avbl Mon 0600Z‡-Sat 0700Z‡, except holidays. Wx observation automated and augmented as rqr 24 hr. Wx observation visibility rstd southwest-northwest due to building. Remote briefing svc avbl 26 OWS, Barksdale AFB, DSN 781-4775, C866-223-9328 (toll free) or <http://ows.barksdale.af.mil>.

COMMUNICATIONS: CTAF 135.2 ATIS 111.2 316.15

Ⓡ APP/DEP CON 133.45 239.4 (220°-340°) 121.1 319.25 (341°-020°) 125.4 327.125 (021°-120°) 133.75 270.35 (121°-219°) (Sun-Mon 1200-0500Z‡, Tue-Sat 24 hrs), other times ctc

Ⓡ JACKSONVILLE CENTER APP/DEP CON 134.3 353.5

TOWER 135.2 111.2 248.55 (Mon-Fri 1200-0700Z‡. When twr clsd ctc Cairns App/Dep Con 125.4 327.125.)

**GND CON** 121.9 288.25 **CLNC DEL** 118.075 380.1 **PMSV METRO** 134.1 348.8 (Remote Briefing svc avbl Shaw AFB, 28 OWS DSN 965-0588, C803-895-0588, toll free C877-297-4129.) Backup, **PTD** 126.2 371.35

**OPS** 126.2 371.35

AIRSPACE: CLASS D svc Mon-Fri 1200-0700Z‡ except holidays other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE ANB.

(L) **VOR/DME** 111.2 OZR Chan 49 N31°16.14' W85°43.58' at fld. 326/2E. Unmonitored Sun and Mon 0500-1200Z‡.

VOR unusable:

016°-049° byd 20 NM

307°-315° byd 17 NM

221°-234° byd 20 NM

DME unusable:

001°-019°

**RUCKR NDB** (MHW/LOM) 212 OZ N31°13.54' W85°48.96' 061° 6.0 NM to fld. Unmonitored Sun and Mon 0500-1200Z‡.

**ILS** 109.7 I-OZR Rwy 6. LOM RUCKR NDB. RUCKER LOM unmonitored Sun and Mon 0500-1200Z‡.

Back course unusable. Localizer usable to 080° either side of front course.

**ASR/PAR**

COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima.

**CALHOUN CO** (See ANNISTON)

**CAMDEN MUNI** (61A) 3 SW UTC-6(-5DT) N31°58.79' W87°20.35'

NEW ORLEANS

143 B NOTAM FILE ANB

L-18H

RWY 18-36: H4303X80 (ASPH) S-27 MRL

RWY 18: VASI(V2L).

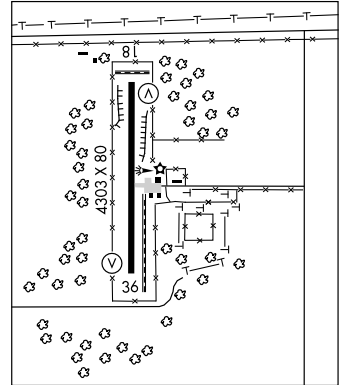
RWY 36: VASI(V2L).

**AIRPORT REMARKS:** Unattended. Rwy 36 VASI OTS indef. ACTIVATE MRL  
Rwy 18-36—CTAF. 6' ditch 172' from thld Rwy 18 across entire  
apch.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

**MONROEVILLE (L) VORTAC** 116.8 MVC Chan 115 N31°27.63'  
W87°21.17' 357° 31.1 NM to fld. 420/04E.



**CAPSHAW** N34°46.42' W86°46.74' NOTAM FILE HSV.

ATLANTA

NDB (MHW) 350 CWH 180° 8.2 NM to Huntsville Intl—Carl T. Jones Fld.

L-18H

**CARL FOLSOM** (See ELBA)

## CENTRE

**CENTRE MUNI** (C22) 3 E UTC-6(-5DT) N34°09.59' W85°38.11'

ATLANTA

619 B FUEL 100LL NOTAM FILE ANB

L-18I

RWY 09-27: H3401X80 (ASPH) S-16 LIRL 0.5% up E

IAP

RWY 09: Trees.

RWY 27: Trees.

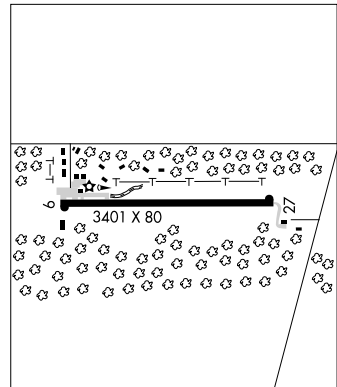
**AIRPORT REMARKS:** Unattended. For arpt attendance call  
256-927-5222. Rwy 09-27 no centerline markings.

**COMMUNICATIONS:** CTAF 122.9

Ⓡ ATLANTA CENTER APP/DEP CON 133.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RMG.

**ROME (H) VORTACW** 115.4 RMG Chan 101 N34°09.75'  
W85°07.17' 269° 25.7 NM to fld. 1150/01E. HIWAS.



**CENTRE—PIEDMONT—CHEROKEE CO RGNL**

(PYP) 5 S

UTC-6(-5DT)

N34°05.40' W85°36.60'

ATLANTA

596 B NOTAM FILE ANB

H-9A, 12F, L-18I

RWY 07-25: H5500X100 (ASPH) MIRL

IAP

RWY 07: Trees.

AIRPORT REMARKS: Unattended. ACTIVATE MIRL Rwy 07-25—CTAF.

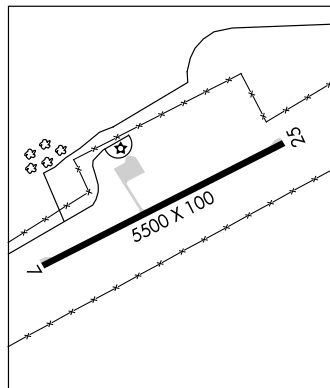
COMMUNICATIONS: CTAF 122.9

ATLANTA CENTER APP/DEP CON 133.8

RADIO AIDS TO NAVIGATION: NOTAM FILE RMG.

ROME (H) VORTACW 115.4 RMG Chan 101 N34°09.75'

W85°07.17' 259° 24.8 NM to fld. 1150/01E. HIWAS.

**CENTREVILLE****BIBB CO** (ØA8) 3 E UTC-6(-5DT) N32°56.22' W87°05.43'

ATLANTA

251 B S4 FUEL 100LL, JET A NOTAM FILE ANB

L-18H

RWY 10-28: H4206X80 (ASPH) S-18 MIRL 0.3% up E

IAP

AIRPORT REMARKS: Attended Mon-Fri 1330-2230Z†. For svc after hrs call 205-225-0075.

COMMUNICATIONS: CTAF/UNICOM 122.8

ATLANTA CENTER APP/DEP CON 132.25

RADIO AIDS TO NAVIGATION: NOTAM FILE ANB.

BROOKWOOD (L) VORTACW 111.0 OKW Chan 47 N33°14.37'

W87°15.00' 156° 19.8 NM to fld. 649/00E.



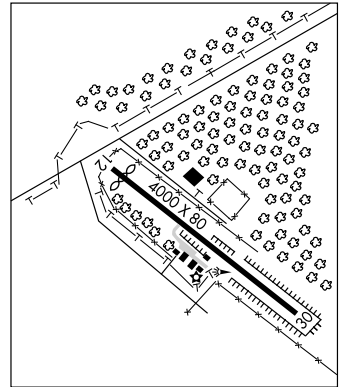


**CHATOM****ROY WILCOX** (5R1) 3 E UTC-6(-5DT) N31°27.11' W88°11.67'

NEW ORLEANS

165 B NOTAM FILE ANB

L-226

**RWY 12-30:** H4000X80 (ASPH) S-15 MIRL**RWY 12:** Thld dslcd 200'. Tree. **RWY 30:** Trees.**AIRPORT REMARKS:** Unattended. Deer on and invof rwy. Block cracking and raveling with loose aggregate.**COMMUNICATIONS:** CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE GWO.**GREENE CO (H) VORTACW** 115.7 GCV Chan 104 N31°05.88' W88°29.17' 030° 26 NM to fld. 300/05E.**CLANTON****GRAGG-WADE FLD** (Ø2A) 1 E UTC-6(-5DT) N32°51.03' W86°36.69'

ATLANTA

585 B S4 FUEL 100LL NOTAM FILE ANB

L-181

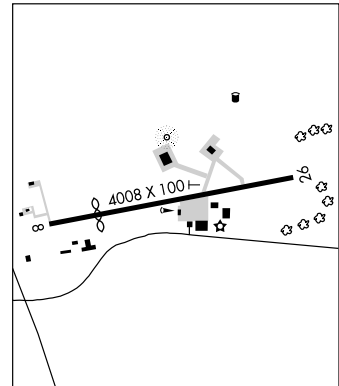
**RWY 08-26:** H4008X100 (ASPH) S-16 MIRL 0.5% up W

IAP

**RWY 08:** Thld dslcd 819'. Tree.**RWY 26:** Tree.**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z†. After hrs 205-280-4586. Fuel 24 hr credit card svc avbl.**COMMUNICATIONS:** CTAF/UNICOM 122.8

® MONTGOMERY APP/DEP CON 121.2 (1200-0500Z†)

ATLANTA CENTER APP/DEP CON 132.25 (0500-1200Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.**BROOKWOOD (L) VORTACW** 111.0 OKW Chan 47 N33°14.37' W87°15.00' 126° 39.8 NM to fld. 649/00E.**NDB (MHW) 338** GGY N32°51.19' W86°36.67' at fld. NDB unmonitored. Unusable byd 15 NM.

**CLAYTON MUNI** (11A) 2 W UTC-6(-5DT) N31°53.00' W85°29.11'

NEW ORLEANS

435 B FUEL JET A NOTAM FILE ANB

H-9A, L-18I

RWY 09-27: H5010X80 (ASPH) MIRL 0.3% up E

IAP

RWY 09: PAPI(P2L)—GA 3.20° TCH 30'. Thld dsplcd 279'. Trees.

RWY 27: PAPI(P2L)—GA 3.0° TCH 30'. Trees.

AIRPORT REMARKS: Unattended. Rwy 27 PAPI OTS indef.

WEATHER DATA SOURCES: AWOS-3 118.775 (334) 775-8414.

COMMUNICATIONS: CTAF 122.9

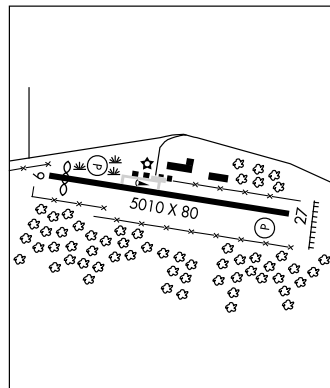
Ⓡ CAIRNS APP/DEP CON 121.1 (Sun-Mon 1200-0500Z†, Tue-Sat 24 hrs), other times ctc

Ⓡ ATLANTA CENTER APP/DEP CON 120.55

RADIO AIDS TO NAVIGATION: NOTAM FILE ANB.

EUFAULA (L) VORTAC 109.2 EUF Chan 29 N31°57.02'

W85°07.83' 256° 18.6 NM to fld. 280/02E.



## COURTLAND

**LAWRENCE COUNTY** (9A4) 2 NE UTC-6(-5DT) N34°39.56' W87°20.93'

ATLANTA

588 B S4 FUEL 100LL, JET A+ OX 3,4 NOTAM FILE ANB

H-6K, 9A, L-18H

RWY 17-35: H5000X150 (CONC)

IAP

RWY 17: Tree.

RWY 13-31: H5000X150 (CONC) MIRL

AIRPORT REMARKS: Attended Mon-Sat 1400-0000Z†, Sun

1900-2300Z†. After hrs call 256-642-0220. Fuel 24 hr credit

card svc avbl. MIRL Rwy 13-31 preset low ints, to incr ints

ACTIVATE—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.7

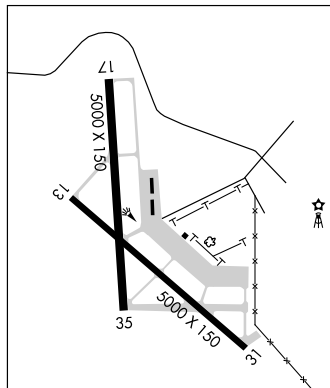
Ⓡ HUNTSVILLE APP/DEP CON 118.05 (1200-0600Z†).

MEMPHIS CENTER APP/DEP CON 120.8 (0600-1200Z†).

RADIO AIDS TO NAVIGATION: NOTAM FILE MSL.

MUSCLE SHOALS (L) VORTACW 116.5 MSL Chan 112 N34°42.41'

W87°29.49' 111° 7.6 NM to fld. 580/01E.



**CRAIG FLD** (See SELMA)

## CREOLA

**MARK REYNOLDS/NORTH MOBILE CO** (15A) 3 NE UTC-6(-5DT)

NEW ORLEANS

N30°54.79' W87°58.83'

60 B NOTAM FILE ANB

RWY 03-21: 2000X180 (TURF) LIRL (NSTD)

RWY 03: Trees. RWY 21: Trees.

AIRPORT REMARKS: Attended dalgt hours. ACTIVATE LIRL Rwy 03-21—CTAF. Rwy 03-21 NSTD LIRL; no thld lgts.

COMMUNICATIONS: CTAF/UNICOM 122.8

**CRIMSON** N33°15.53' W87°32.21' NOTAM FILE ANB.

ATLANTA

(L) VORTAC 117.8 LDK Chan 125 236° 4.4 NM to Tuscaloosa Rgnl. 370/03E.

L-18H

RCO 122.1R 117.8T (ANNISTON RADIO)

**CULLMAN**

**FOLSOM FLD** (3A1) 5 N UTC-6(-5DT) N34°16.12' W86°51.48'  
 969 B S4 FUEL 100LL, JET A1+ TPA-1969 (1000) NOTAM FILE 3A1  
 RWY 02-20: H5500X100 (ASPH) S-30 MIRL 0.6% up N  
 RWY 02: REIL. PAPI (P2L)—GA 3.0° TCH 53'. Tree.  
 RWY 20: REIL. PAPI (P2L).

**AIRPORT REMARKS:** Attended 1300-2300Z†. CLOSED Christmas Day.  
 For svc after hrs call 256-708-2295. Fuel 24 hr credit card svc  
 avbl. Parachute Jumping. Extensive flight training within arpt area.  
 ACTIVATE MIRL Rwy 02-20—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 124.175 (256) 775-7476.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ HUNTSVILLE APP/DEP CON 118.05 (1200-0600Z†)

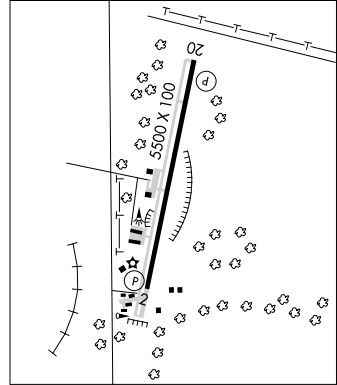
MEMPHIS CENTER APP/DEP CON 120.8 (0600-1200Z†)

GCO 121.725 (HUNTSVILLE CLNC)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

VULCAN (H) VORTAC 114.4 VUZ Chan 91 N33°40.21'

W86°53.99' 001° 35.9 NM to fld. 750/02E. HIWAS.



ATLANTA  
 H-6K, 9A, L-18H  
 IAP

**DAUPHIN ISLAND** (4R9) 0 NW UTC-6(-5DT) N30°15.63' W88°07.65'

5 B NOTAM FILE ANB

RWY 12-30: H3000X80 (ASPH) S-30 MIRL

RWY 12: PVASI(PSIL). Thld dsplcd 202'.

RWY 30: PVASI(PSIR). Thld dsplcd 140'. Trees.

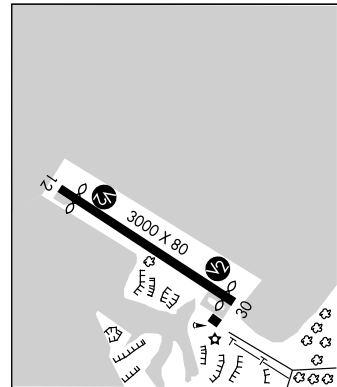
**AIRPORT REMARKS:** Unattended. Birds on and invof arpt. Extensive  
 banner tow ops around island coast line and north to Mobile.  
 ACTIVATE MIRL Rwy 12-30 and PVASI Rwy 12 and Rwy 30—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BFM.

BROOKLEY (L) VORTAC 112.8 BFM Chan 75 N30°36.76'

W88°03.33' 186° 21.4 NM to fld. 30/04E.



NEW ORLEANS  
 L-21C, 22G

**DECATUR** N34°38.90' W86°56.37' NOTAM FILE DCU.

(L) VORW/DME 112.8 DCU Chan 75 at Pryor Fld Rgnl. 590/01W. HIWAS.

RCO 122.6 (ANNISTON RADIO) at Pryor Fld Rgnl.

ATLANTA  
 L-18H

**DECATUR**

**PRYOR FLD RGNL** (DCU) 3 NE UTC-6(-5DT) N34°39.16' W86°56.72'

592 B S4 FUEL 100LL, JET A1+ OX 3,4 NOTAM FILE DCU

RWY 18-36: H6107X100 (ASPH-GRVD) S-35, D-55, DT-95 HIRL

RWY 18: REIL.

RWY 36: REIL. PAPI(P2L).

**AIRPORT REMARKS:** Attended 1300Z±-dusk. PPR for attendant after hrs call 256-232-2470 or 256-729-8676. ACTIVATE HIRL Rwy 18-36, REIL Rwy 18 and Rwy 36 and PAPI Rwy 36—CTAF.

**WEATHER DATA SOURCES:** ASOS 118.375 (256) 350-4270.

HIWAS 112.8 DCU.

**COMMUNICATIONS:** CTAF/UNICOM 123.075

DECATUR RCO 122.6 (ANNISTON RADIO)

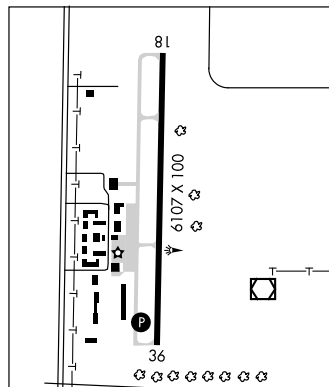
® HUNTSVILLE APP/DEP CON 118.05 (1200-0600Z±)

MEMPHIS CENTER APP/DEP CON 120.8 (0600-1200Z±)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DCU.

DECATUR (L) VORW/DME 112.8 DCU Chan 75 N34°38.90' W86°56.37' at fld. 590/01W. HIWAS.

ATLANTA  
H-6K, 9A, L-18H  
IAP



**DEMOPOLIS MUNI** (DYA) 6 SW UTC-6(-5DT) N32°27.83' W87°57.24'

113 B FUEL 100LL, JET A NOTAM FILE ANB

RWY 04-22: H5000X100 (ASPH) S-30, D-38, DT-60 MIRL

RWY 04: PAPI (P2R)—GA 3.25° TCH 43'. Trees.

RWY 22: PAPI (P2L)—GA 3.25° TCH 43'.

**AIRPORT REMARKS:** Attended 1345-2300Z±. For arpt attendant after hrs call 334-289-5849 or 334-216-3160. Deer on and invof arpt. PAEW adjacent N side Rwy 04-22. Rwy 04-22 20' shoulders on both sides of rwy. ACTIVATE PAPI Rwy 04 and Rwy 22 and MIRL Rwy 04-22—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.475 (334) 289-1466

**COMMUNICATIONS:** CTAF/UNICOM 122.8

® MERIDIAN APP/DEP CON 119.2 (1300-0500Z±)

ATLANTA CENTER APP/DEP CON 132.25 (0500-1300Z±)

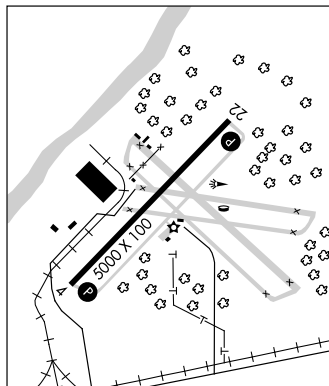
**RADIO AIDS TO NAVIGATION:** NOTAM FILE MEI.

MERIDIAN (H) VORTAC 117.0 MEI Chan 117 N32°22.71' W88°48.26' 078° 43.5 NM to fld. 580/05E.

HIWAS.

MARENGO NDB (MHW) 391 RZO N32°24.86' W88°00.92' 048° 4.3 NM to fld. NOTAM FILE ANB. Ops 1345-0045Z±.

ATLANTA  
H-6K, 9A, L-18H  
IAP



**DOTHAN RGNL** (DHN)(KDHN) CIV/MIL 5 NW UTC-6(-5DT) N31°19.26' W85°26.97'

NEW ORLEANS

401 B S4 FUEL 100LL, JET A Class I, ARFF Index B NOTAM FILE DHN

H-9A, L-221

RWY 14-32: H8498X150 (ASPH-GRVD) S-75, D-105, DT-190 PCN 34 F/B/X/T HIRL

IAP, DIAP, AD

RWY 14: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Pole.

RWY 32: MALSR.

RWY 18-36: H5500X100 (ASPH) S-75, D-105, DT-190 PCN 30  
F/B/X/T HIRL 0.3% up N

RWY 18: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Thld displcd 500'.

Trees.

RWY 36: Trees.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 14: TORA-8498 TODA-8498 ASDA-8498 LDA-8498

RWY 18: TORA-5500 TODA-5500 ASDA-5500 LDA-5000

RWY 32: TORA-8498 TODA-8498 ASDA-8498 LDA-8498

RWY 36: TORA-5000 TODA-5000 ASDA-5000 LDA-5000

**MILITARY SERVICE: FUEL** (NC-100LL) A, A+ (Flightline of Dothan, Inc,  
C334-983-5555, Mon-Fri 1030-0300Z†, Sat-Sun  
1100-0300Z†. After hrs \$25 fee.)**AIRPORT REMARKS:** Attended continuously. 48 hours PPR forunscheduled air carrier opr with more than 30 passenger seats  
0500-1200Z† call arpt manager 334-983-8100. Maximum twywidth for Rwy 14-32 is 75'. ARFF personnel on duty at arpt 24  
hrs. Rwy 18 thld lgts are 30 ft from approach end of rwy. When twr clsd ACTIVATE HIRL Rwy 14-32; PAPI andREIL Rwy 14 and MALSR Rwy 32—CTAF. HIRL Rwy 18-36 and PAPI Rwy 18 avbl by prior req during attended  
hrs—call 334-983-8100/8103. REIL Rwy 18 operates by twr when Rwy 18 is active. Landing fee for commercial

acft over 12,500 lbs.

**MILITARY REMARKS:** RSTD USAF not authorized to opr C130 and C135 acft on Rwy 18-36.**WEATHER DATA SOURCES:** ASOS (C334) 983-5999. LAWRS.**COMMUNICATIONS:** CTAF 118.4 ATIS 135.72 UNICOM 122.95

RCO 122.5 122.2 255.4 (ANNISTON RADIO)

Ⓡ CAIRNS APP/DEP CON 125.4 327.125 (Sun-Mon 1200-0500Z†, Tue-Sat 24 hrs), other times ctc

Ⓡ JACKSONVILLE CENTER APP/DEP CON 134.3

TOWER 118.4 257.6 (Mon-Fri 1200-0300Z†, Sat and Sun 1400-0200Z†) GND CON 121.7 348.6

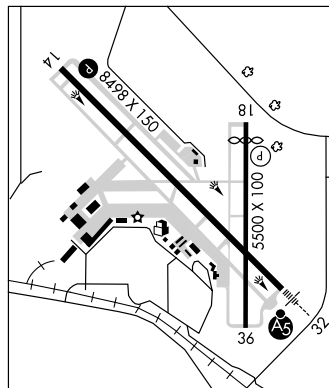
VFR ADVSY SVC 118.4

**AIRSPACE:** CLASS D svc Mon-Fri 1200-0300Z†, Sat and Sun 1400-0200Z† other times CLASS E.**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.**WIREGRASS (L) VORTAC** 111.6 RRS Chan 53 N31°17.08' W85°25.87' 335° 2.4 NM to fld. 347/2E.

HIWAS.

ILS 108.3 I-DHN Rwy 32. Class IE.

ILS/DME 110.75 I-ODA Chan 044(Y) Rwy 14.

**DOUBLE SPRINGS-WINSTON CO** (3M2) 4 E UTC-6(-5DT) N34°08.66' W87°19.67'

ATLANTA

753 B S4 NOTAM FILE ANB

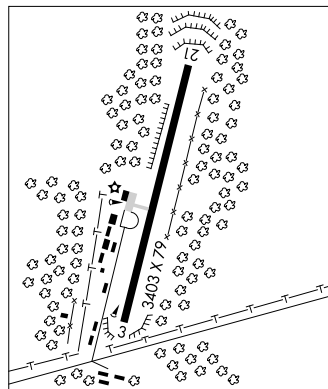
L-18H

RWY 03-21: H3403X79 (ASPH) S-15 MRL

RWY 03: Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1400-2300Z†.**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.**HAMILTON (L) VORTACW** 110.4 HAB Chan 41 N34°11.93'

W88°00.70' 093° 34.2 NM to fld. 802/02E. HIWAS.



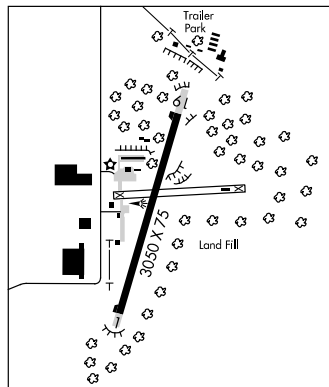
**ELBA****CARL FOLSOM** (14J) 2 W UTC-6(-5DT) N31°24.60' W86°05.42'

258 B NOTAM FILE ANB

**RWY 01-19:** H3050X75 (ASPH) S-4 MIRL**RWY 19:** Pole.**AIRPORT REMARKS:** Unattended. Rwy 01-19 has 344' by 100' asphalt overrun on the north end. Wind indicator lgts OTS indef.**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.**WIREGRASS (L) VORTAC** 111.6 RRS Chan 53 N31°17.08' W85°25.87' 281° 34.7 NM to fld. 347/02E. HIWAS.

NEW ORLEANS

L-22H

**ENTERPRISE MUNI** (EDN) 3 W UTC-6(-5DT) N31°17.98' W85°53.99'

361 B S4 FUEL 100LL, JET A TPA—See Remarks NOTAM FILE ANB

**RWY 05-23:** H5080X100 (ASPH) MIRL**RWY 05:** REIL. PAPI(P2L)—GA 3.0° TCH 47'.**RWY 23:** REIL. PAPI(P2L)—GA 3.0° TCH 52'. Pole.**AIRPORT REMARKS:** Attended 1400-2300Z+. All fuel avbl daily 1400-0000Z+. TPA—Category 'A' and 'B' acft 1161(800), TPA—Category 'C' acft 1861(1500). MIRL Rwy 05-23, PAPI Rwy 05 and Rwy 23 and REIL Rwy 05 and Rwy 23 opr dusk-0530Z+, after 0530Z+ ACTIVATE—CTAF.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ **CAIRNS APP/DEP CON** 133.45 (Sun-Mon 1200-0500Z+, Tue-Sat 24 hrs), other times ctc

Ⓡ **JACKSONVILLE CENTER APP/DEP CON** 134.3

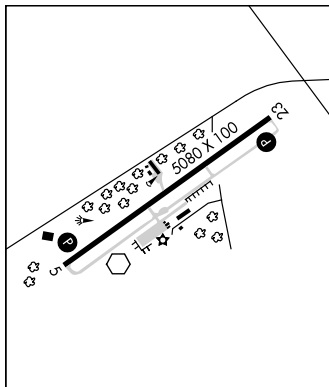
**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.**WIREGRASS (L) VORTAC** 111.6 RRS Chan 53 N31°17.08' W85°25.87' 270° 24.1 NM to fld. 347/02E. HIWAS.**(T) VORW** 116.6 EDN N31°17.78' W85°54.16' at fld. Unmonitored.

**BOLL WEEVIL NDB (MHW)** 352 BVG N31°20.36' W85°58.92' 116° 4.8 NM to fld. Unmonitored Sun and Mon 0500-1200Z+. Unusable byd 20 NM.

NEW ORLEANS

H-9A, L-22H

IAP

**EUFAULA** N31°57.02' W85°07.83'. NOTAM FILE ANB.**(L) VORTAC** 109.2 EUF Chan 29 at Weedon Fld. 280/02E**RCO** 122.1R 109.2T (ANNISTON RADIO)

NEW ORLEANS

L-181

**EUFULA****WEEDON FLD** (EUF) 3 N UTC-6(-5DT) N31°57.08' W85°07.74'

285 B S2 FUEL 100LL, JET A NOTAM FILE ANB

RWY 18-36: H5000X100 (ASPH) S-16 MIRL

RWY 18: PAPI(P4L)—GA 3.0° TCH 25'. Trees.

RWY 36: PAPI(P4L)—GA 3.0° TCH 25'. Trees.

**AIRPORT REMARKS:** Attended 1400-2300Z†. For svc after hours call 334-367-9003. Rwy 18-36 MIRL opr dusk-0400Z†, after 0400Z† ACTIVATE MIRL Rwy 18-36 and PAPI Rwy 18 and Rwy 36—CTAF. Arpt located in wildlife refuge - constant bird hazard. Low flying helicopters in traffic pattern.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

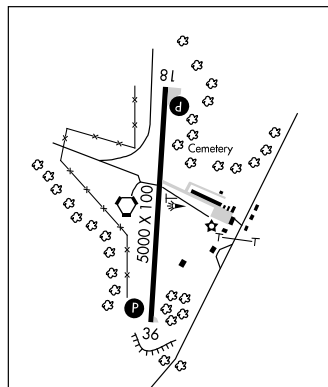
EUFULA RCO 122.1R 109.2T (ANNISTON RADIO)

Ⓡ ATLANTA APP/DEP CON 125.5 (blo 7000') 126.55 (7000' & abv)  
(1015-0200Z†) CLNC DEL 134.25

ATLANTA CENTER APP/DEP CON 120.45 (0200-1015Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

EUFULA (L) VORTAC 109.2 EUF Chan 29 N31°57.02'  
W85°07.83' at fld. 280/02E.



NEW ORLEANS  
H-9A, L-181  
IAP

**EUTAW MUNI** (3A7) 2 SE UTC-6(-5DT) N32°49.26' W87°51.75'

170 B NOTAM FILE ANB

RWY 16-34: H3600X80 (ASPH) MIRL

RWY 16: Trees. RWY 34: P-line.

**AIRPORT REMARKS:** Unattended. CLOSED indefinitely. Parachute Jumping. Pay phone avbl at arpt 205-372-9901. Rwy 16-34 MIRL OTS indef. Rotating bcn OTS indef.

**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

CRIMSON (L) VORTAC 117.8 LDK Chan 125 N33°15.53' W87°32.21' 209° 30.9 NM to fld. 370/03E.

ATLANTA  
L-18H

**EVERGREEN****MIDDLETON FLD** (GZH) 5 W UTC-6(-5DT) N31°24.95' W87°02.65'

259 B FUEL 100LL, JET A NOTAM FILE GZH

RWY 01-19: H4002X150 (ASPH) MIRL

RWY 01: Trees.

RWY 10-28: H4000X150 (ASPH) S-30, D-50 MIRL 0.4% up W

RWY 10: PAPI(P4L). Trees. RWY 28: Tree.

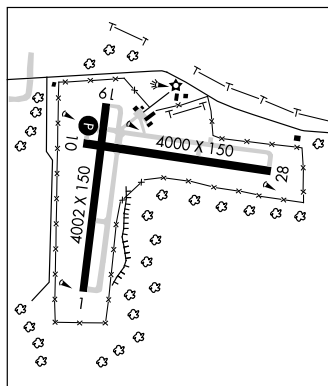
**AIRPORT REMARKS:** Attended 1400-2300Z†. For attendant after hrs call (251) 578-3431/2749. Intensive Navy propeller training Mon-Fri: SR-SS. ACTIVATE MIRL Rwy 01-19 and Rwy 10-28 and PAPI Rwy 10—CTAF.

**WEATHER DATA SOURCES:** ASOS 133.425 (251) 578-1438.**COMMUNICATIONS:** CTAF/UNICOM 122.7

JAX CENTER APP/DEP CON 120.2

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

MONROEVILLE (L) VORTAC 116.8 MVC Chan 115 N31°27.63'  
W87°21.17' 095° 16.1 NM to fld. 420/04E.



NEW ORLEANS  
L-22H  
IAP

**FAIRHOPE****FISH RIVER SPB** (5AL) 9 SE UTC-6(-5DT) N30°27.00' W87°48.47'

NEW ORLEANS

3 FUEL 100LL NOTAM FILE ANB Not insp.

WATERWAY 16W-34W: 4395X200 (WATER)

WATERWAY 16W: Trees. WATERWAY 34W: Trees.

**SEAPLANE REMARKS:** Unattended. Call ahead for availability at 251-928-1473. Turning basins are avbl at both ends of the sealane. Good anchorage avbl in turning basins. Rwy 16W be alert for trees along the shore of the river and on both approaches to the sealane.

**COMMUNICATIONS:** CTAF 122.9 UNICOM 122.8**HL SONNY CALLAHAN** (4R4) 3 SE UTC-6(-5DT) N30°27.63' W87°52.62'

NEW ORLEANS

91 B S4 FUEL 100LL, JET A NOTAM FILE ANB

H-7E, 8G, L-21C, 22H

RWY 01-19: H6604X100 (ASPH-GRVD) S-36, D-58 HIRL

IAP

RWY 01: REIL. PAPI(P4L)—GA 3.0° TCH 35'.

RWY 19: REIL. PAPI(P4L)—GA 3.0° TCH 35'. Pole.

**AIRPORT REMARKS:** Attended 1200-0200Z†. HIRL RWY 01-19 preset on low ints, to incr ints and ACTIVATE REIL Rwy 01 and REIL Rwy 19—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.425 (251) 928-3242.**COMMUNICATIONS:** CTAF/UNICOM 123.0

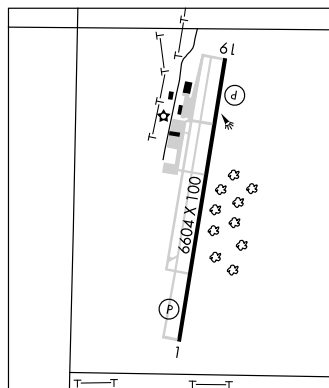
Ⓡ MOBILE APP/DEP CON 118.5 (1200-0500Z†)

HOUSTON CENTER APP/DEP CON 127.65 (0500-1200Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BFM.

BROOKLEY (L) VORTAC 112.8 BFM Chan 75 N30°36.76'

W88°03.33' 131° 13.0 NM to fld. 30/04E.

**FAYETTE** N33°42.86' W87°48.76' NOTAM FILE ANB.

ATLANTA

NDB (MHW) 204 FDF at Richard Arthur Fld. NDB unmonitored.

L-18H

**FAYETTE****RICHARD ARTHUR FLD** (M95) 3 NE UTC-6(-5DT) N33°42.55' W87°48.91'

ATLANTA

357 B FUEL 100LL, JET A NOTAM FILE ANB

H-6K, L-18H

RWY 18-36: H5008X80 (ASPH) S-15 MRL 0.5% up N

IAP

RWY 18: PAPI(P2L)—GA 3.0° TCH 45'. Trees.

RWY 36: PAPI(P2L)—GA 3.0° TCH 45'. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z†. Deer on and in/ov arpt. ACTIVATE MRL and taxiway lgts Rwy 18-36, PAPI Rwy 18 and Rwy 36—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ COLUMBUS APP/DEP CON 126.075 (1300-0100Z† Mon-Fri,

1600-2300Z† Sun, clsd Sat and holidays. Other times ctc

MEMPHIS CENTER APP/DEP CON 127.1

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

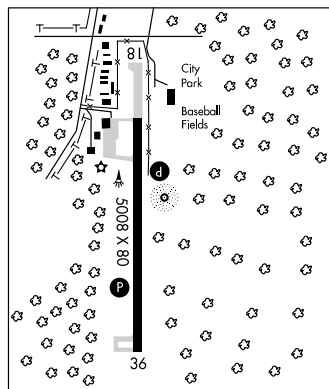
HAMILTON (L) VORTACW 110.4 HAB Chan 41 N34°11.93'

W88°00.70' 159° 30.9 NM to fld. 802/02E.

HIWAS.

FAYETTE NDB (MHW) 204 FDF N33°42.86' W87°48.76' at fld.

NDB unmonitored.

**FISH RIVER SPB** (See FAIRHOPE)



**FLORALA MUNI** (ØJ4) 3 NE UTC-6(-5DT) N31°02.55' W86°18.69'

314 B S4 OX 2 NOTAM FILE ANB

RWY 04-22: H3197X75 (ASPH) MIRL 0.8% up NE

RWY 04: Trees.

RWY 22: Pole.

**AIRPORT REMARKS:** Attended 1400-0600Z±. Deer on and in/ovf rwy. No running lgds on rwy/twy by skid equipped helicopters. Rotorcraft and helicopters avoid acft paint hangar in middle of field.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

CAIRNS APP/DEP CON 133.45

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CEW.

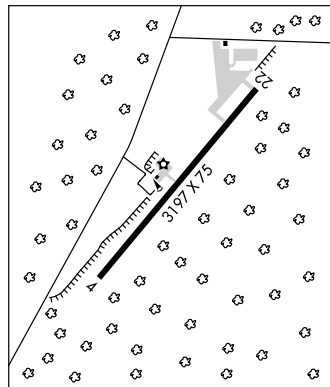
CRESTVIEW (H) VORTACW 115.9 CEW Chan 106 N30°49.57'

W86°40.75' 053° 23 NM to fld. 255/03E. HIWAS.

NEW ORLEANS

L-21C, 22H

IAP



**FOLEY MUNI** (5R4) 3 NW UTC-6(-5DT) N30°25.66' W87°42.06'

74 B S4 FUEL 100LL NOTAM FILE ANB

RWY 18-36: H3700X75 (ASPH) S-28 MIRL 0.3% up S

RWY 18: PVASI(PSIL).

RWY 36: PVASI(PSIL). Tree.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z±, Sat-Sun 1300-0000Z±. MIRL Rwy 18-36 preset on low ints; to increase ints—CTAF. PSIL Rwys 18 and 36 opr dusk-dawn; ACTIVATE other hrs—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 123.05

® PENSACOLA APP/DEP CON 118.6

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BFM.

BROOKLEY (L) VORTAC 112.8 BFM Chan 75 N30°36.76'

W88°03.33' 117° 21.5 NM to fld. 30/04E.

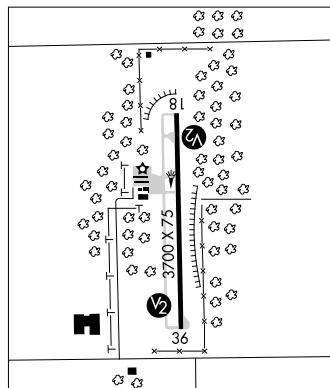
SUMMERDALE NDB (MHW) 204 ESU N30°29.95'

W87°43.54' 165° 4.5 to fld. NOTAM FILE ANB. NDB unusable 060°-280° byd 10 NM blo 3000'. NDB unusable byd 20 NM.

NEW ORLEANS

L-21C, 22H

IAP



**FOLSOM FLD** (See CULLMAN)

**FORT DEPOSIT-LOWNDES CO** (67A) 1 SW UTC-6(-5DT) N31°58.34' W86°35.50'

490 B NOTAM FILE ANB

RWY 15-33: H3593X78 (ASPH) S-15 MIRL

RWY 33: Tree.

**AIRPORT REMARKS:** Unattended. Arpt bcn OTS indef.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MGM.

MONTGOMERY (H) VORTAC 112.1 MGM Chan 58 N32°13.34' W86°19.18' 220° 20.4 NM to fld. 270/03E.

HIWAS.

NEW ORLEANS

L-181

**FORT PAYNE** N34°31.27' W85°40.40' NOTAM FILE ANB.

NDB (MHW) 426 FTP 221° 3.7 NM to Isbell Fld. NDB unmonitored from dusk-1300Z±.

ATLANTA

L-181

**FORT PAYNE****ISBELL FLD** (4A9) 2 N UTC-6(-5DT) N34°28.42' W85°43.28'

877 B S4 FUEL 100LL, JET A NOTAM FILE ANB

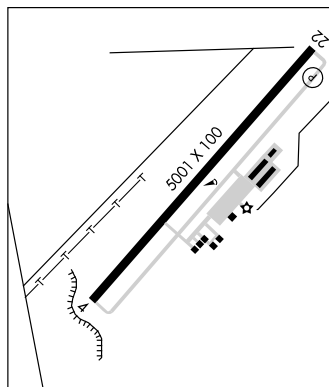
**RWY 04-22:** H5001X100 (ASPH) S-16 MIRL 0.3% up NE**RWY 04:** REIL. Pole.**RWY 22:** REIL. PAPI(P4L)—GA 3.0° TCH 38'. Pole.**AIRPORT REMARKS:** Attended 1400-0300Z†. For svc after hrs call 256-996-0903, or 256-638-4003. MIRL Rwy 04-22 preset low ints, to increase ints **ACTIVATE**—CTAF. REIL Rwy 04 and Rwy 22—CTAF. PAPI Rwy 22 opr continuously.**WEATHER DATA SOURCES:** AWOS-3 119.025 (256) 845-5397.**COMMUNICATIONS:** CTAF/UNICOM 122.8

ATLANTA CENTER APP/DEP CON 133.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RMG.**ROME (H) VORTACW** 115.4 RMG Chan 101 N34°09.75'W85°07.17' 301° 35.2 NM to fld. 1150/01E. **HIWAS.****FORT PAYNE NDB (MHW)** 426 FTP N34°31.27'

W85°40.40' 221° 3.7 NM to fld. NOTAM FILE ANB

NDB unmonitored from dusk-1300Z‡.

ATLANTA  
H-9A, 12F, L-181  
IAP**FORT RUCKER** (See CAIRNS AAF)**FORT RUCKER** (See HANCHEY AHP)**FORT RUCKER** (See LOWE AHP)**FRANK SIKES** (See LUVERNE)**FRANKLIN FLD** (See UNION SPRINGS)**FREDDIE JONES FLD** (See LINDEN)**GADSDEN** N33°58.58' W86°05.01' NOTAM FILE GAD(L) **VOR/DME** 112.3 GAD Chan 70 at Northeast Alabama Rngl. 560/02E.

DME unusable 295°-305° byd 30 NM blo 5500'.

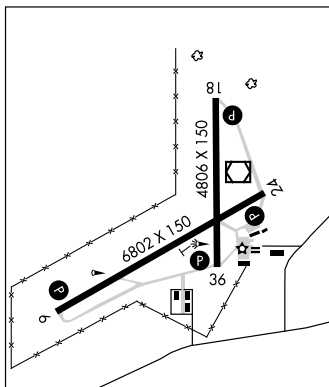
VOR/DME unusable 127°-226° byd 20 NM blo 5000'.

**RCO** 122.1R 112.3T (ANNISTON RADIO)ATLANTA  
L-181**GADSDEN****NORTHEAST ALABAMA RGNL** (GAD) 4 SW UTC-6(-5DT) N33°58.36' W86°05.35'

569 B S4 FUEL 100LL, JET A NOTAM FILE GAD

**RWY 06-24:** H6802X150 (ASPH-GRVD) S-90, D-115, ST-146, DT-195 HIRL 0.3% up NE**RWY 06:** REIL. PAPI(P4L)—GA 3.0° TCH 40'.**RWY 24:** REIL. PAPI(P4L)—GA 3.0° TCH 40'.**RWY 18-36:** H4806X150 (ASPH) S-25, D-40, DT-78**RWY 18:** REIL. PAPI(P2L)—GA 2.75° TCH 42'. Bldg.**RWY 36:** REIL. PAPI(P2L)—GA 2.75° TCH 40'. Tree.**AIRPORT REMARKS:** Attended 1300-0100Z†. Unattended Federal holidays, for after hrs svc call 256-613-5788. Parachute Jumping. Svc charge for fuel dark-dawn. **ACTIVATE** HIRL RWY 06-24, PAPI Rwy 06, Rwy 24, Rwy 18 and Rwy 36, REIL Rwy 06, Rwy 24, Rwy 18 and Rwy 36 and twy lgts—CTAF.**WEATHER DATA SOURCES:** AWOS-3 127.825 (256)442-7094.**COMMUNICATIONS:** CTAF/UNICOM 122.8**GADSDEN RCO** 122.1R 112.3T (ANNISTON RADIO)® **BIRMINGHAM APP/DEP CON** 120.05**RADIO AIDS TO NAVIGATION:** NOTAM FILE GAD.**GADSDEN (L) VOR/DME** 112.3 GAD Chan 70 N33°58.58'

W86°05.01' at fld. 560/02E.

**COMM/NAV/WEATHER REMARKS:** Dewpoint temperature unreliable.ATLANTA  
H-6K, 9A, 12F, L-181  
IAP

**GENEVA MUNI** (33J) 2 N UTC-6(-5DT) N31°03.15' W85°52.14'

NEW ORLEANS

101 B S2 FUEL 100LL TPA-1001(900) NOTAM FILE ANB

L-21C, 221

RWY 11-29: H3984X98 (ASPH) S-16 MIRL

RWY 29: Pole.

**AIRPORT REMARKS:** Attended Mon-Sat 1400-2300Z†, Sun 1800-2300Z†. For arpt attendant after hrs call 334-588-3227 or 334-684-2968. Rotating bcn OTS indef.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

**WIREGRASS (L) VORTAC** 111.6 RRS Chan 53 N31°17.08' W85°25.87' 236° 26.5 NM to fld. 347/02E. HIWAS.

**GEORGE DOWNER** (See ALICEVILLE)

**GRAGG-WADE FLD** (See CLANTON)

**GREENSBORO MUNI** (7A0) 3 SW UTC-6(-5DT) N32°40.89' W87°39.73'

ATLANTA

L-18H

180 B FUEL 100LL NOTAM FILE ANB

RWY 18-36: H3495X78 (ASPH) S-16 MIRL 0.3% up N

RWY 18: Fence. RWY 36: Trees.

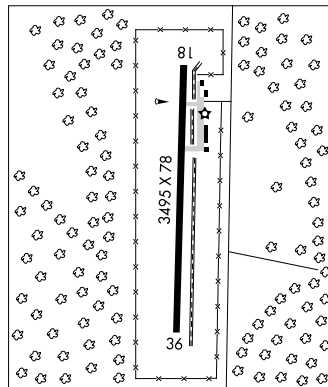
**AIRPORT REMARKS:** Attended irregularly. CLOSED indefinitely. Rwy 18-36 pavement failure and extremely hazardous with cracking and vegetation. Rotating bcn OTS indef. ACTIVATE MIRL Rwy 18-36-CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

ATLANTA CENTER APP/DEP CON 132.25

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

**CRIMSON (L) VORTAC** 117.8 LDK Chan 125 N33°15.53' W87°32.21' 187° 35.2 NM to fld. 370/03E.



## GREENVILLE

**MAC CRENSHAW MEMORIAL** (PRN) 2 NE UTC-6(-5DT) N31°50.74' W86°36.65'

NEW ORLEANS

H-6K, 9A, L-181

451 B S4 FUEL 100LL, JET A TPA-See Remarks NOTAM FILE ANB

RWY 14-32: H5500X80 (ASPH) S-15 MIRL 0.5% up NW

RWY 14: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Tree.

RWY 32: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Thld dsplcd 300'.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 14: TORA-5200 TODA-5500 ASDA-5200 LDA-5200

RWY 32: TORA-5500 TODA-5500 ASDA-5500 LDA-5200

**AIRPORT REMARKS:** Attended Mon-Sat 1400-2300Z†, Sun 1900-2300Z†. For fuel after hrs call 334-382-2809 or 334-335-5950, svc charge. PAEW adjacent Rwy 14-32 indef. TPA for Category A and B acft 1451 (1000); Category C acft 1951 (1500). ACTIVATE MIRL Rwy 14-32 and PAPI and REIL Rws 14 and 32-CTAF.

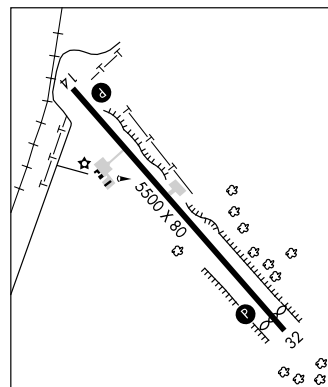
**WEATHER DATA SOURCES:** ASOS 120.0 (334) 383-9676.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

® ATLANTA CENTER APP/DEP CON 120.55

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MGM.

**MONTGOMERY (H) VORTAC** 112.1 MGM Chan 58 N32°13.34' W86°19.18' 210° 27 NM to fld. 270/03E. HIWAS.



**GROVE HILL MUNI** (3A0) 2 SE UTC-6(-5DT) N31°41.36' W87°45.68'  
 478 NOTAM FILE ANB  
**Rwy 13-31:** H2704X75 (ASPH) S-12  
**Rwy 13:** Trees. **Rwy 31:** Thld dsplcd 75'. Trees.  
**AIRPORT REMARKS:** Unattended. Rwy 13-31 NW 600' CLOSED indef.  
**COMMUNICATIONS:** CTAF 122.9

NEW ORLEANS

## GULF SHORES

**JACK EDWARDS** (JKA) 2 N UTC-6(-5DT) N30°17.38' W87°40.31'

NEW ORLEANS

17 B S4 FUEL 100LL, JET A NOTAM FILE ANB  
**Rwy 09-27:** H6962X100 (ASPH-GRVD) S-80, D-100 HIRL  
**Rwy 09:** PAPI(P4L)—GA 3.0° TCH 50'. Thld dsplcd 462'.  
**Rwy 27:** MALSR. PAPI(P4L)—GA 3.0° 50'.  
**Rwy 17-35:** H3596X75 (ASPH) S-80, D-100 MIRL

H-7E, 8G, L-21C, 22H  
IAP

### RUNWAY DECLARED DISTANCE INFORMATION

**Rwy 09:** TORA-6962 TODA-6962 ASDA-6962 LDA-6500  
**Rwy 27:** TORA-6500 TODA-6500 ASDA-6500 LDA-6500

**AIRPORT REMARKS:** Attended 1200-0200Z†. After hrs svc call 251-269-0184. Extensive banner towing ops along coast line 10 miles west-southwest to 30 miles east-southeast, south of Pensacola. FBO phones 251-968-6380, 251-970-2927 and 251-968-5200. HIRL Rwy 09-27 preset med ints dusk-dawn to increase ints ACTIVATE HIRL Rwy 09-27, MALSR Rwy 27—CTAF. PAPI Rwy 09 and Rwy 27 opr continuously. NOTE: See Special Notices—Aerobatic Practice Area.

**WEATHER DATA SOURCES:** AWOS-3 134.525 (251) 968-7581.

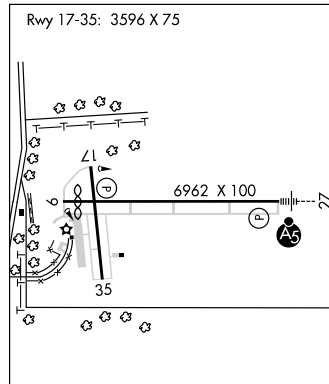
**COMMUNICATIONS:** CTAF/UNICOM 122.7

® **PENSACOLA APP/DEP CON** 120.05 **CLNC DEL** 124.55

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BFM.

**BROOKLEY (L) VORTAC** 112.8 BFM Chan 75 N30°36.76'  
 W88°03.33' 130° 27.7 NM to fld. 30/04E.

**ILS/DME** 110.7 I-JKA Chan 44 Rwy 27.



**GUNTERSVILLE MUNI—JOE STARNES FLD** (8A1) 3 NE UTC-6(-5DT) N34°23.97' W86°16.21'

ATLANTA

615 B S4 FUEL 100LL, JET A NOTAM FILE ANB

L-181

**Rwy 03-21:** H3368X95 (ASPH) S-10 MIRL 0.4% up SW

IAP

**Rwy 03:** PAPI(P2L). Thld dsplcd 802'. Trees.

**Rwy 21:** PAPI(P2L). Trees.

**AIRPORT REMARKS:** Attended Nov-Feb 1300-2300Z†, Mar-Oct 1400-0000Z†. For svc after hrs call 256-878-3539 or 256-508-9604. ACTIVATE MIRL Rwy 03-21 and PAPI Rwy 03 and Rwy 21—CTAF.

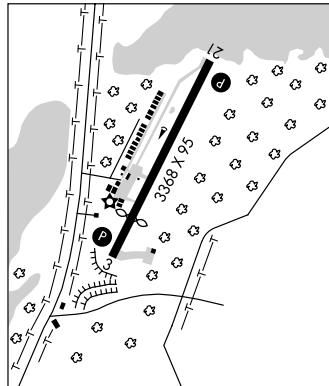
**COMMUNICATIONS:** CTAF/UNICOM 122.8

**HUNTSVILLE APP/DEP CON** 125.6 (1200-0600Z†)

**MEMPHIS CENTER APP/DEP CON** 120.8 (0600-1200Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE GAD.

**GADSDEN (L) VOR/DME** 112.3 GAD Chan 70 N33°58.58'  
 W86°05.01' 338° 27.0 NM to fld. 560/02E.



**HALEYVILLE****POSEY FLD** (1M4) 3 NE UTC-6(-5DT) N34°16.82' W87°36.03'

930 B FUEL 100LL, JET A+ NOTAM FILE ANB

RWY 18-36: H5008X100 (ASPH) S-20 MIRL 0.5% up N

RWY 18: REIL. PAPI(P4L)—GA 3.0° TCH 49'. Tree.

RWY 36: REIL. PAPI(P4L)—GA 3.0° TCH 39'. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z†. For svc after hrs call 205-486-3484. Unrestricted golf cart access. ACTIVATE MIRL Rwy 18-36, PAPI Rwy 18 and Rwy 36 and REIL Rwy 18 and Rwy 36—CTAF.

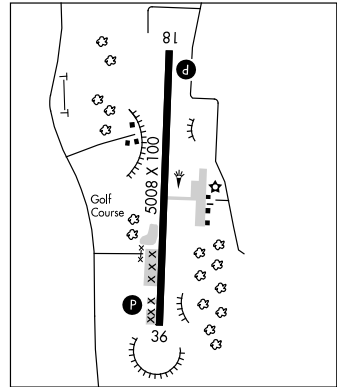
**WEATHER DATA SOURCES:** ASOS 119.525 (205) 486-0035.**COMMUNICATIONS:** CTAF/UNICOM 122.8**MEMPHIS CENTER APP/DEP CON** 120.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.**HAMILTON (L) VORTACW** 110.4 HAB Chan 41 N34°11.93'

W88°00.70' 074° 21.0 NM to fld. 802/02E.

**HIWAS.****MUSCLE SHOALS (L) VORTACW** 116.5 MSL Chan 112 N34°42.41'

W87°29.49' 191° 26.1 NM to fld. 580/01E. NOTAM FILE MSL.

**ATLANTA**  
H-6K, 9A, L-18H  
IAP

**HAMILTON** N34°11.93' W88°00.70' NOTAM FILE ANB.(L) VORTACW 110.4 HAB Chan 41 170° 4.9 NM to Marion Co-Rankin Fite. 802/02E. **HIWAS.**

RCO 122.3 (ANNISTON RADIO)

**ATLANTA**  
L-18H

**HAMILTON****MARION CO-RANKIN FITE** (HAB) 1 S UTC-6(-5DT) N34°07.06' W87°59.89'

436 B S4 FUEL 100LL, JET A+ NOTAM FILE ANB

RWY 18-36: H5495X100 (ASPH) S-15 MIRL 0.6% up N

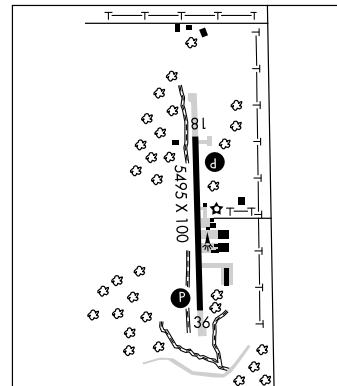
RWY 18: REIL. PAPI(P4L).

RWY 36: REIL. PAPI(P4L). Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z†. For svc after hrs 205-412-0849. ACTIVATE MIRL Rwy 18-36, PAPI Rwy 18 and Rwy 36, REIL Rwy 18 and Rwy 36—CTAF.

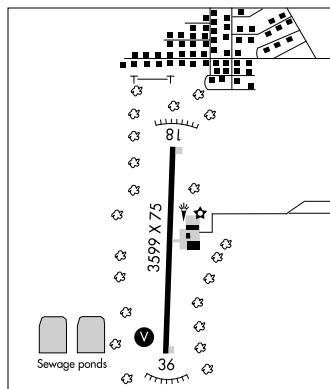
**WEATHER DATA SOURCES:** HIWAS 110.4 HAB.**COMMUNICATIONS:** CTAF/UNICOM 122.8Ⓡ **MEMPHIS CENTER APP/DEP CON** 127.1**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.**HAMILTON (L) VORTACW** 110.4 HAB Chan 41 N34°11.93'W88°00.70' 170° 4.9 NM to fld. 802/02E. **HIWAS.**

**ATLANTA**  
H-6J, 9A, L-18H  
IAP

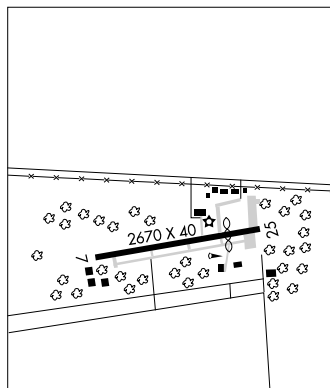


**HANCHEY AHP** (FORT RUCKER) (HEY) A 4 SE UTC-6(-5DT) N31°20.76' W85°39.26' **NEW ORLEANS**  
 317 B TPA—See Remarks NOTAM FILE OZR Not insp. L-221  
 RWY 17-35: H467X50 (ASPH) MIRL DIAP  
**MILITARY SERVICE:** LGT High ints rotating bcn, 60/80 white flashes per minute. FUEL 100, J8.  
**MILITARY REMARKS:** Opr Mon-Fri 1245-0730Z except holidays, other times ctc Carins Twr. See FLIP AP/1, Flt Haz,  
 Fort Rucker. RSTD No tran acft. CAUTION Intense student training. TFC PAT TPA-900(583)  
**COMMUNICATIONS:** ATIS 141.375  
 (R) **CAIRNS APP/DEP CON** 121.1 319.25 (Sun-Mon 1200-0500Z, Tue-Sat 24 hrs), other times ctc  
 (R) **JACKSONVILLE CENTER APP/DEP CON** 134.3 353.5  
**TOWER** 141.8 387.85 (Mon-Fri 1245-0730Z except holidays, other times ctc Cairns Twr.) **GND CON** 149.6  
 225.575 **CAIRNS CLNC DEL** 118.075 380.1  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.  
 (T) **VORW** 110.6 HEY N31°22.45' W85°39.17' 186° 1.7 NM to fld. 300/3W. Unmonitored. VOR unusable  
 311°-089° within 25 NM.  
**NDB (MHW)** 221 HYE N31°22.01' W85°39.00' 193° 1.3 NM to fld. Unmonitored Sun and Mon  
 0500-1200Z.

**HARTSELLE-MORGAN CO RGNL** (5MØ) 2 S UTC-6(-5DT) N34°24.49' W86°55.98' **ATLANTA**  
 628 B S4 FUEL 100LL, JET A NOTAM FILE ANB L-18H  
**RWY 18-36:** H3599X75 (ASPH) S-20 MIRL 0.8% up N IAP  
**RWY 18:** Pole. **RWY 36:** VASI (V2L)—GA 3.0° TCH 34'. Trees.  
**AIRPORT REMARKS:** Attended Mar-Oct 1300-0000Z, Nov-Feb  
 1300-2300Z. After hrs phone 256-784-5133 or  
 256-303-2777. MIRL Rwy 18-36 preset on high ints, to  
 ACTIVATE MIRL Rwy 18-36 and VASI Rwy 36—CTAF.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8  
 (R) **HUNTSVILLE APP/DEP CON** 118.05 (1200-0600Z)  
**MEMPHIS CENTER APP/DEP CON** 120.8 (0600-1200Z)  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.  
**ROCKET (L) VORTACW** 112.2 RQZ Chan 59 N34°47.83'  
 W86°38.03' 211° 27.6 NM to fld. 1199/02E.



**HAZEL GREEN** (M38) 4 W UTC-6(-5DT) N34°54.96' W86°38.83' **ATLANTA**  
 814 B S4 FUEL 100LL NOTAM FILE ANB  
**RWY 07-25:** H2670X40 (ASPH) S-10 LIRL  
**RWY 07:** Tree. **RWY 25:** Thld dsplcd 550'. Trees.  
**AIRPORT REMARKS:** Attended Tue-Sat 1400-2300Z. Parachute  
 Jumping. Rwy 07-25 under water during rain. Rotating bcn OTS  
 indef. ACTIVATE LIRL Rwy 07-25-122.8.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8



**HEADLAND MUNI** (ØJ6) 2 NE UTC-6(-5DT) N31°21.85' W85°18.70'

359 B S8 FUEL 100LL NOTAM FILE ANB

RWY 09-27: H5002X80 (ASPH) S-12 MIRL

RWY 09: Pline. RWY 27: Brush.

RWY 17-35: 2885X162 (TURF)

RWY 35: Building.

**AIRPORT REMARKS:** Unattended. Fuel credit card svc avbl. Parachute Jumping. Rwy 35 farm equipment and acft may be parked close to rwy thld. Rwy 17-35 2 inch lip where rwy intersects Rwy 09-27. ACTIVATE MIRL Rwy 09-27—CTAF. Rwy 17-35 TURF rwy edges marked with white plastic cones with black tips; thld marked with white concrete L shapes.

**COMMUNICATIONS:** CTAF 122.9

**CAIRNS APP/DEP CON** 125.4 (Sun-Mon 1200-0500Z†, Tue-Sat 24 hrs), other times ctc

® **JACKSONVILLE CENTER APP/DEP CON** 134.3

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

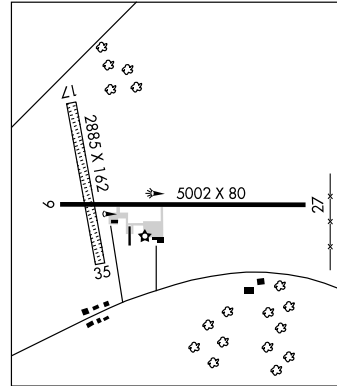
**WIREGRASS (L) VORTAC** 111.6 RRS Chan 53 N31°17.08'

W85°25.87' 050° 7.8 NM to fld. 347/02E. HIWAS.

**NEW ORLEANS**

H-9A, L-221

IAP



**HL SONNY CALLAHAN** (See FAIRHOPE)

**HUBBARD LANDING SPB** (See STOCKTON)

**HUNTSVILLE****HUNTSVILLE INTL—CARL T JONES FLD** (HSV) 9 SW UTC-6(-5DT)

ATLANTA

H-6K, 9A, L-18H

N34°38.23' W86°46.50'

629 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 LRA Class I, ARFF Index C

NOTAM FILE HSV

IAP, AD

**RWY 18R-36L:** H12600X150 (ASPH-GRVD) S-90, D-200, ST-175,

DT-350, DDT-850 HIRL CL

**RWY 18R:** ALSF2. TDZL. Rgt tfc.**RWY 36L:** MALSR. TDZL.**RWY 18L-36R:** H10006X150 (ASPH-GRVD) S-90, D-200, ST-175,

DT-350, DDT-850 HIRL

**RWY 18L:** MALSR. PAPI(P4R)—GA 3.0° TCH 55'.**RWY 36R:** MALSR. VASI(V4L)—GA 3.0° TCH 55'. Thld dspcd 206'.

Rgt tfc.

**RUNWAY DECLARED DISTANCE INFORMATION****RWY 18L:** TORA-10000 TODA-10000 ASDA-9800 LDA-9800**RWY 18R:** TORA-12600 TODA-12600 ASDA-12600 LDA-12600**RWY 36L:** TORA-12600 TODA-12600 ASDA-12600 LDA-12600**RWY 36R:** TORA-10000 TODA-10000 ASDA-10000 LDA-9800

**AIRPORT REMARKS:** Attended continuously. PAEW fencing air carrier ramp. Taxi into position and hold not authorized. Rwy 18L runway visual range touchdown, midfield, rollout avbl. Rwy 18R-36L runway visual range touchdown, rollout avbl. Intersection of Twy J and svc road is uncontrolled. When twr clsd; ACTIVATE HIRL Rwy 18R-36L and Rwy 18L-36R, MALSR Rwy 18L and Rwy 36R, ALSF2 Rwy 18R and MALSR Rwy 36L—CTAF. Flight Notification Service (ADCUS) avbl.

**WEATHER DATA SOURCES:** ASOS (256) 772-8074. WSP.**COMMUNICATIONS:** CTAF 127.6 ATIS 121.25 UNICOM 122.95

RCO 122.2 (ANNISTON RADIO)

Ⓐ APP CON 125.6 (360°-179°) 118.05 (180°-359°) 118.75 (1200-0600Z‡)

Ⓐ DEP CON 125.6 (360°-179°) 118.05 (180°-359°)

MEMPHIS CENTER APP/DEP CON 120.8 (0600-1200Z‡)

TOWER 127.6 Tue-Sat 1200-0600Z‡, Sun 1200Z‡ through Tue 0600Z‡ GND CON 121.9 CLNC DEL 120.35

**AIRSPACE:** CLASS C svc 1200-0600Z‡ other times CLASS E.**RADIO AIDS TO NAVIGATION:** NOTAM FILE DCU.

DECATUR (L) VORW/DME 112.8 DCU Chan 75 N34°38.90' W86°56.37' 096° 8.2 NM to fld. 590/01W.

HIWAS.

CAPSHAW NDB (MHW) 350 CWH N34°46.42' W86°46.74' 180° 8.2 NM to fld. NOTAM FILE HSV.

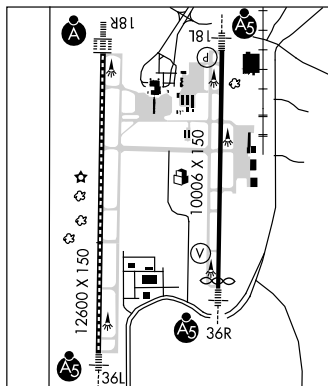
ILS 109.3 I-HSV Rwy 18R. Class IIIIE. OM OTS indef.

ILS 108.5 I-ELL Rwy 36L. Class IA. Middle marker OTS indef. OM OTS indef

ILS 111.9 I-TVN Rwy 18L. Class IA.

ILS/DME 109.55 I-JJC Chan 32(Y) Rwy 36R. Class IE. LOC unusable byd 20° left of course.

ASR

**MADISON CO EXECUTIVE/TOM SHARP JR FLD** (MDQ) 1 NE UTC-6(-5DT) N34°51.69' W86°33.45' ATLANTA

H-6K, 9A, L-16J

756 B S4 FUEL 100LL, JET A OX 2 NOTAM FILE MDQ

IAP

**RWY 18-36:** H5008X100 (ASPH-GRVD) S-60, D-75, DT-140 MIRL 0.7% up S**RWY 18:** REIL. PAPI(P4L)—GA 3.0° TCH 40'.**RWY 36:** REIL. PAPI(P4L)—GA 3.0° TCH 35'. Rgt tfc.**AIRPORT REMARKS:** Attended Mon-Fri 1330-0330Z‡, Sat-Sun

1400-0200Z‡. For svc after hrs call 256-603-9345. ACTIVATE

MIRL Rwy 18-36, REIL Rwy 18 and Rwy 36—CTAF. PAPI Rwy 18

and Rwy 36 on continuously.

**WEATHER DATA SOURCES:** AWOS-3 120.0 (256) 829-1242.**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓐ HUNTSVILLE APP/DEP CON 125.6 (1200-0600Z‡)

MEMPHIS CENTER APP/DEP CON 120.8 (0600-1200Z‡)

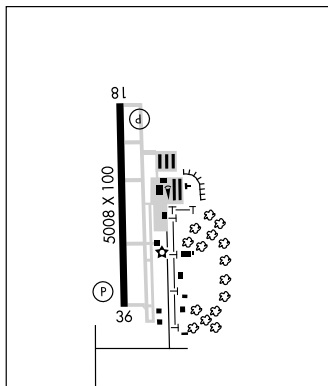
GCO 121.725 (HUNTSVILLE APCH)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

ROCKET (L) VORTACW 112.2 RQZ Chan 59 N34°47.83'

W86°38.03' 042° 5.4 NM to fld. 1199/02E.

ILS/DME 109.75 I-MDQ Chan 34(Y) Rwy 18.





**MOONTOWN** (3M5) 7 E UTC-6(-5DT) N34°44.84' W86°27.68'

ATLANTA

650 B S2 FUEL 100LL, MOGAS NOTAM FILE ANB

RWY 09-27: 2180X160 (TURF) LIRL

RWY 09: Tree. RWY 27: Road. Rgt tfc.

AIRPORT REMARKS: Attended 1400-0200Z†. ACTIVATE LIRL Rwy 09-27 and rotating bcn—CTAF. Bcn shielded on S.

COMMUNICATIONS: CTAF/UNICOM 122.7

**ISBELL FLD** (See FORT PAYNE)

**JACK EDWARDS** (See GULF SHORES)

**JACKSON MUNI** (4R3) 2 S UTC-6(-5DT) N31°28.23' W87°53.75'

NEW ORLEANS

62 B NOTAM FILE ANB

H-6K, 9A, L-226

RWY 01-19: H5003X80 (ASPH) S-25 MIRL

RWY 01: PAPI(P2L)—GA 3.0° TCH 72'. RWY 19: PAPI(P2L)—GA 3.0° TCH 39'.

AIRPORT REMARKS: Attended continuously. Rwy 01-19 slopes uphill to the south.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE ANB.

MONROEVILLE (L) VORTAC 116.8 MVC Chan 115 N31°27.63' W87°21.17' 267° 27.9 NM to fld. 420/04E.

## JASPER

**WALKER CO-BEVILL FLD** (JFX) 5 NW UTC-6(-5DT) N33°54.12' W87°18.85'

ATLANTA

482 B S4 FUEL 100LL, JET A NOTAM FILE ANB

H-6K, 9A, L-18H

RWY 09-27: H5003X100 (ASPH) S-50 MIRL

IAP

RWY 09: REIL VASI(V4L). Trees.

RWY 27: REIL VASI(V4L). Thld displcd 200'. Trees.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 09: TORA-5001 TODA-5001 ASDA-4800 LDA-4800

RWY 27: TORA-5001 TODA-5001 ASDA-5001 LDA-4800

AIRPORT REMARKS: Attended 1400-0030Z†. Deer on and invof rwy.

ACTIVATE MIRL Rwy 09-27, VASI Rwy 09 and Rwy 27 and REIL

Rwy 09 and Rwy 27—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.225 (205) 295-5539

COMMUNICATIONS: CTAF/UNICOM 122.7

® BIRMINGHAM APP/DEP CON 127.675

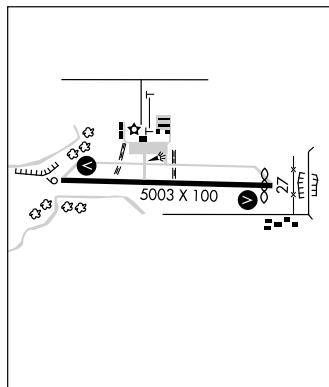
GCO 121.725 (Birmingham CLNC)

RADIO AIDS TO NAVIGATION: NOTAM FILE ANB.

VULCAN (H) VORTAC 114.4 VUZ Chan 91 N33°40.21'

W86°53.99' 302° 24.9 NM to fld. 750/02E. HIWAS.

ILS/DME 108.9 I-JFX Chan 26 Rwy 27.



**JUDD** N31°18.31' W86°23.45' NOTAM FILE ANB.

NEW ORLEANS

NDB (MHW) 264 JUY at South Alabama Rgnl at Bill Benton Fld.

L-22H

Unmonitored Sun and Mon 0500-1200Z†.

**JUNIOR** N32°20.68' W86°59.48' NOTAM FILE ANB.

ATLANTA

(H) VORW/DME 113.6 JYU at Craig Fld.

H-6K, 9A, L-18H

**LAMAR CO** (See VERNON)

**LANETT MUNI** (7A3) 3 SW UTC-6(-5DT) N32°48.72' W85°13.77'

624 B FUEL 100LL NOTAM FILE ANB

RWY 08-26: H3148X80 (ASPH) S-16 MIRL

RWY 08: Trees. RWY 26: Trees.

**AIRPORT REMARKS:** Unattended. Fuel 24 hr credit card svc avbl. Deer on and in/ov arpt.

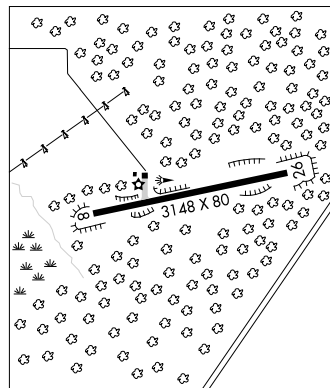
**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ ATLANTA APP/DEP CON 125.5 (blo 7000') 126.55 (7000' & abv)  
(1015-0200Z‡)

ATLANTA CENTER APP/DEP CON 120.45 (0200-1015Z‡)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CSG.

COLUMBUS (L) VORTAC 117.1 CSG Chan 118 N32°36.92'  
W85°01.06' 317° 15.9 NM to fld. 630/01E.



ATLANTA  
L-181  
IAP

**LAWRENCE COUNTY** (See COURTLAND)

## LINDEN

**FREDDIE JONES FLD** (70A) 5 SE UTC-6(-5DT) N32°16.03' W87°43.10'

161 NOTAM FILE ANB

RWY 18-36: H3390X80 (ASPH) LIRL

RWY 18: Trees. RWY 36: Trees.

**AIRPORT REMARKS:** Unattended. Arpt CLOSED indef. Rwy 18-36 center line marking only; severely faded. Pavement oxidized and ravelling with loose aggregate. Grass growing in cracks. LIRL Rwy 18-36 OTS indef.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

MONROEVILLE (L) VORTAC 116.8 MVC Chan 115 N31°27.63' W87°21.17' 335° 51.8 NM to fld. 420/04E.

ATLANTA  
L-18H

**LOGAN FLD** (See SAMSON)

**LOWE AHP** (FORT RUCKER) (LOR) A 3 W UTC-6(-5DT) N31°21.35' W85° 45.07'

NEW ORLEANS

294 B TPA—See Remarks NOTAM FILE OZR Not insp.

RWY 06L-24R: H2000X75 (ASPH) PCN 7 R/C/W/T LIRL

RWY 06R-24L: H2000X75 (ASPH) PCN 9 R/C/W/T LIRL

RWY 18L-36R: H2000X75 (ASPH) PCN 5 F/B/W/T LIRL

RWY 18R-36L: H2000X75 (ASPH) PCN 7 F/B/W/T LIRL

MILITARY SERVICE: FUEL J8.

**MILITARY REMARKS:** Opr Mon-Fri 1300-0700Z‡ except holidays. See FLIP AP/1, Flt Hazards, Fort Rucker. RSTD No tran acft. No usable rwy on Lowe AHP at this time. CAUTION Intense student training. TFC PAT TPA-800(506).

**COMMUNICATIONS:** ATIS 361.1

Ⓡ CARINS APP/DEP CON 133.45 239.4 (Sun-Mon 1200-0500Z‡, Tue-Sat 24 hrs), other times ctc

Ⓡ JACKSONVILLE CENTER APP/DEP CON 134.3 353.5

TOWER 141.3 289.15 46.95 (Mon-Fri 1300-0700Z‡ except holidays) GND CON 357.15

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

ENTERPRISE (T) VORW 116.6 EDN N31°17.78' W85°54.16' 068° 8.6 NM to fld. Unmonitored.

NDB (MHW) 269 LOR N31°21.62' W85°44.61' at fld. Unmonitored Sun and Mon 0500-1200Z‡.

L-221  
DIAP

**LUVERNE****FRANK SIKES** (Ø4A) 2 N UTC-6(-5DT) N31°44.17' W86°15.73'**NEW ORLEANS**  
L-181

300 B FUEL 100LL NOTAM FILE ANB

RWY 04-22: H4640X80 (ASPH) S-15 LIRL(NSTD)

RWY 04: Thld dsplcd 740'. Trees.

RWY 22: Thld dsplcd 875'. Trees.

**AIRPORT REMARKS:** Unattended. 24 hr credit card svc avbl. Rwy 04-22 NSTD LIRL, first 750' of Rwy 04 unlgtd and first 875' of Rwy 22 unlgtd. ACTIVATE LIRL Rwy 04-22—CTAF.**COMMUNICATIONS:** CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE MGM.MONTGOMERY (H) VORTAC 112.1 MGM Chan 58 N32°13.34' W86°19.18' 171° 29.3 NM to fld. 270/03E.  
HIWAS.**MAC CRENSHAW MEMORIAL** (See GREENVILLE)**MADISON CO EXECUTIVE/TOM SHARP JR FLD** (See HUNTSVILLE)**MARENGO** N32°24.86' W88°00.92' NOTAM FILE ANB.**MEMPHIS**  
L-18H

NDB (MHW) 391 RZO 048° 4.3 NM to Demopolis Muni. Ops 1345-0045Z†.

**MARION****VAIDEN FLD** (AØ8) 8 SW UTC-6(-5DT) N32°30.63' W87°23.08'**ATLANTA**  
H-6K, 9A, L-18H

225 B NOTAM FILE ANB

RWY 16-34: H6377X80 (ASPH) S-30, D-50 MIRL

RWY 16: PAPI(P2L)—GA 3.07° TCH 40'.

RWY 34: PAPI(P2L)—GA 3.07° TCH 40'. Trees.

**AIRPORT REMARKS:** Unattended. Rwy 16-34 center 80 ft overlaid, transition to sides is smooth. MIRL Rwy 16-34 located 10 ft from rwy edge. ACTIVATE MIRL Rwy 16-34 and PAPI Rwy 16 and Rwy 34—CTAF.**COMMUNICATIONS:** CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

BROOKWOOD (L) VORTACW 111.0 OKW Chan 47 N33°14.37' W87°15.00' 189° 44.2 NM to fld. 649/00E.

**MARION CO-RANKIN FITE** (See HAMILTON)**MARK REYNOLDS/NORTH MOBILE CO** (See CREOLA)**MARRA** N32°18.70' W86°30.63' NOTAM FILE MGM.**ATLANTA**  
L-181

NDB (LOM) 245 MG 096° 6 NM to Montgomery Rgnl/Dannelly Fld.

**MAXWELL AFB** (MXF)(KMXF) AF (AFRC) 2 NW UTC-6(-5DT) N32°22.75' W86°21.75' **ATLANTA**  
 171 B TPA—See Remarks NOTAM FILE MXF Not insp. **H-6K, 9A, L-181**  
**RWY 15-33:** H8013X150 (ASPH) PCN 77 R/B/W/T HIRL **DIAP, AD**  
**RWY 15:** ALSF1. PAPI(P4L). Rgt tfc. **RWY 33:** PAPI(P4L).  
**RWY 007-187:** H3015X60 (ASPH) PCN 41 R/C/W/T  
**ARRESTING GEAR/SYSTEM**  
**RWY 15** ← HOOK MB60 (35' OVRN) BAK-14 BAK-12A(B) (1700') HOOK MB60 (35' OVRN) **RWY 33**  
**MILITARY SERVICE:** LGT Rwy 15 70 ft gated thld lgt. **A GEAR** HOOK MB-60 Approach end disconnect and remain in place  
 at all times (tied-down). Departure end connected. **JASU** 4(A/M32A-86D) 2(AM32-95) **FUEL** J8 (NC-100)  
**FLUID** SP LHOX  
**TRAN ALERT** AIREVAC and Distinguished Visitor acft will be given priority servicing.  
**MILITARY REMARKS:** Opr weekdays 1400-0400Z, weekends 1600-0000Z, clsd Federal holidays. See FLIP AP/1  
 Supplementary Arpt Remarks. **RSTD** During Bird Watch Condition Code Moderate and Severe, aircrews should  
 comply with owning MAJCOM/unit guidance; aircrews can obtain current Bird Watch Condition from  
 ATIS/PTD/twr. PPR all ldg acft, 24 hr prior notice rqr. Assault Strip use authorized for C130 or smaller acft with  
 assault training requirements; reference AP/1 for procedure/rstd. Assault Strip ldg rqr PPR. Ctc Bse OPS DSN  
 493-6961, C334-953-6961. Acft transporting Distinguished Visitor to KMXF or Gunter Annex ctc PTD 30  
 minutes prior ldg. Wx obsn visibility rstd to 1/4-1 NM all quad exc NW due numerous obstructions. Twr will  
 conduct cooperative wx watch and supplement obsn as rqr. Apch end Rwy 33 does not have wx sensors. Data  
 from Rwy 15 end sensors is considered representative for non-precision apch landings on Rwy 33 end. **CAUTION**  
 Practice missed apch in VFR conditions maintain rwy heading blo 1200' until over dep end of rwy then  
 immediate right standard rate turn to heading 300° to avoid Dannelly Fld. Possible hydroplaning during periods  
 of heavy rain on Rwy 15-33 N of Twy C up to intersection of Assault Strip (007-187) and Rwy 15-33. Caution to  
 acft utilizing Rwy 15-33: men and equipment (max height 25') opr in S clear zone; penetrating 50:1 apch-dep  
 clearance sfc. Paved landing zone 007/187. Visual landing zone marker panels and HIRL are NSTD. **TFC PAT**  
 TPA—Rectangular 1200(1029), overhead 1700(1529). Wind direction indicators—optical lgts are controlled by  
 twr during ngt opr hrs, reduced visibility, and IFR conditions only. **CSTMS/AG/IMG** Avbl during normal duty hr with 72  
 hr prior notice for acft supporting Air University or 908th Wing mission. Ctc 42 OSF/AOA, DSN 493-6961/6962,  
 C334-953-6961/6962, fax DSN 493-6690, C334-953-6690. **MISC** 1st 2200' Rwy 15 is conc, next 3903' is  
 asph, next 400' is conc overlay, remaining 1503' is asph; reverse order for Rwy 33. Rwy 15-33 will accept acft  
 heavier than published weight bearing capacity, ctc Base OPS for weight bearing waiver. All twy location sign  
 color coding is NSTD. **AFRC** Opr weekdays 1315-2200Z, and unit training assembly weekend, DSN 493-2717.  
**COMMUNICATIONS:** ATIS 134.7 269.9 (Weekdays 1400-0400Z, weekends 1600-0000Z clsd Federal holidays)  
 PTD 139.3 372.2  
 (R) **MONTGOMERY APP/DEP CON** 124.0 363.025 (S) 121.2 380.225 (N) (1200-0500Z)  
 (R) **ATLANTA CENTER APP/DEP CON** 120.55 270.25 (0500-1200Z)  
**TOWER** 118.15 253.5 (Weekdays 1400-0400Z, weekends 1600-0000Z, clsd Federal holidays)  
**GND CON** 127.15 289.4  
**MAXWELL COMBINED COMD POST** 396.9, 118.150 monitor after normal duty hours (Call HANK OPS).  
**PMSV METRO** 342.3 (Full svc avbl weekdays 1400-0400Z, weekends 1600-0000Z, clsd Federal holidays.  
 Remote briefing svc avbl at Barksdale AFB from 26 OWS DSN 781-4775. ASOS in use, augmented during afld  
 opr hr, DSN 493-7375, C334-953-7375.  
**AIRSPACE:** CLASS D svc weekdays 1400-0400Z, weekends 1600-0000Z, clsd Federal holidays other times CLASS  
 E.  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.  
 (L) **TACAN** Chan 97 MXF (115.0) N32°22.76' W86°22.10' at fld. 170/2W. Unmonitored 0400-1400Z.  
 No NOTAM MP Wed 1400-1630Z.  
**TACAN** unusable:  
 355°-215° byd 25 NM blo 2,500' 245°-315° byd 25 NM blo 2,500'  
 216°-244° byd 25 NM blo 3,000' 316°-354° byd 25 NM blo 3,000'  
**ILS** 109.3 I-MXF Rwy 15. Unmonitored 0400-1400Z. No NOTAM MP LOC Mon 1400-1630Z, glide  
 slope Tue 1400-1630Z.

**MC DEN** N33°30.68' W86°50.74' NOTAM FILE BHM. **ATLANTA**  
**NDB (HW/LDM)** 224 BH 059° 5.6 NM to Birmingham-Shuttlesworth Intl. **L-18H**

**MCMINN** (See WEAVER)

**MERKEL FLD SYLACAUGA MUNI** (See SYLACAUGA)

**MIDDLETON FLD** (see EVERGREEN)

**MOBILE****MOBILE DOWNTOWN** (BFM) 3 S UTC-6(-5DT) N30°37.61' W88°04.09'

26 B S4 FUEL 100LL, JET A OX 1, 2 LRA Class IV, ARFF Index A

NOTAM FILE BFM

**RWY 14-32:** H9618X150 (ASPH-CONC) S-75, D-185, ST-175, DT-325 HIRL CL**RWY 14:** REIL. PAPI(P4L)—GA 3.0° TCH 68. Tree. Rgt tfc.**RWY 32:** MALSR. TDZL. PAPI(P4L)—GA 3.0° TCH 71'.**RWY 18-36:** H7800X150 (ASPH-CONC) S-76, D-150, ST-175, DT-320 MIRL**RWY 18:** PAPI(P4L)—GA 3.0° TCH 64'. Pole.**RWY 36:** PAPI(P4L)—GA 3.0° TCH 62'. Trees. Rgt tfc.

**AIRPORT REMARKS:** Attended 1300-0500Z†. CLOSED to air carrier operations with more than 30 passenger seats except with 24 hr PPR call arpt manager 251-633-4510. Birds periodically on or in vol of arpt and increasing in activity during inclement weather. Rwy 14-32 centerline lgts avbl during hrs of ops only. Rwy 32 TDZL lgts avbl during hrs of ops only. Rwy 32 RVR touchdown. HIRL Rwy 14-32 preset on step 3 or higher based on weather. When twr clsd ACTIVATE MALSR Rwy 32—CTAF.

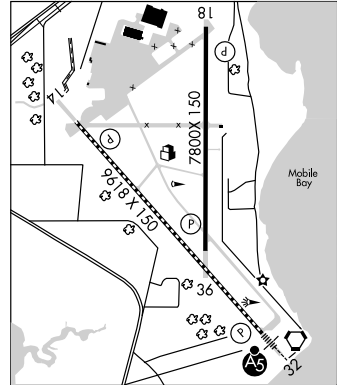
**WEATHER DATA SOURCES:** ASOS (251) 431-6762. LAWRS.**COMMUNICATIONS:** CTAF 118.8 ATIS 135.575 UNICOM 122.95

BROOKLEY RCO 122.1R 112.8T (ANNISTON RADIO)

® **MOBILE APP/DEP CON** 118.5 (1200-0500Z†)**HOUSTON CENTER APP/DEP CON** 127.65 (0500-1200Z†)**DOWNTOWN TOWER** 118.8 (Sun 1300-0100Z†, Mon 1300-0400Z†, Tue-Fri 0930-0400Z†, Sat 1000-0100Z†) **GND CON** 121.7**AIRSPACE:** CLASS D svc Sun 1300-0100Z†, Mon 1300-0400Z†, Tue-Fri 0930-0400Z†, Sat 1000-0100Z†, other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE BFM.**BROOKLEY (L) VORTAC** 112.8 BFM Chan 75 N30°36.76' W88°03.33' 318° 1.1 NM to fld. 30/04E.**ILS/DME** 108.5 I-RUJ Chan 22 Rwy 32. Class IA. Unmonitored when twr clsd.**NEW ORLEANS**

H-6K, 8G, L-21C, 22G

IAP, AD



**MOBILE RGNL** (MOB) 11 W UTC-6(-5DT) N30°41.49' W88°14.57'  
 219 B S4 FUEL 100LL, JET A OX 2, 4 LRA Class I, ARFF Index C  
 NOTAM FILE MOB

NEW ORLEANS

H-6K, 8G, L-21C, 22G  
 IAP, AD

**RWY 14-32:** H8502X150 (ASPH-GRVD) S-75, D-162, ST-175,  
 DT-270, DDT-550 HIRL  
**RWY 14:** MALSR. PAPI(P4L)—GA 3.0° TCH 50'.  
**RWY 32:** MALSR. PAPI(P4L)—GA 3.0° TCH 50'.  
**RWY 18-36:** H4376X150 (ASPH-GRVD) S-47, D-60, DT-96 MIRL  
**RWY 18:** VASI(V2L)—GA 3.0° TCH 25'. Tree.  
**RWY 36:** VASI(V2L)—GA 3.0° TCH 26'. Trees.

**AIRPORT REMARKS:** Attended continuously. Rwy 18-36 CLOSED  
 0400-1300Z except for emerg ops. 48 hr PPR for unscheduled  
 acft over 65,000 lbs call arpt manager 251-633-4510. PAPI Rwy  
 14 and Rwy 32 and VASI Rwy 18 and Rwy 36 oprs continuously.  
 HIRL Rwy 14-32 preset step 3 or higher based on weather  
 conditions. When twr clsd ACTIVATE MALSR Rws 14 and  
 32—CTAF. VASI Rwy 18 and VASI Rwy 36 OTS indef. Ldg fee for  
 non-scheduled commercial acft over 65,000 pounds. Flight  
 Notification Service (ADCUS) avbl.

**WEATHER DATA SOURCES:** ASOS (251) 607-0469. LLWAS.

**COMMUNICATIONS:** CTAF 118.3 ATIS 124.75 UNICOM 122.95

RCO 123.65 122.2 (ANNISTON RADIO)

Ⓡ **MOBILE APP/DEP CON** 118.5 (320°-139°) 121.0 (140°-319°) (1200-0500Z‡)

**HOUSTON CENTER APP/DEP CON** 127.65 (0500-1200Z‡)

**MOBILE TOWER** 118.3 (1200-0500Z‡) **GND CON** 121.9 **CLNC DEL** 119.85

**AIRSPACE:** CLASS C svc 1200-0500Z‡ ctc APP CON other times CLASS E.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

**SEMMES (H) VORTACW** 115.3 SJI Chan 100 N30°43.56' W88°21.56' 104° 6.4 NM to fld. 190/05E

**WISLE NDB (HW/LOM)** 248 MO N30°45.64' W88°18.19' 141° 5.2 NM to fld. NOTAM FILE MOB. NDB  
 unmonitored.

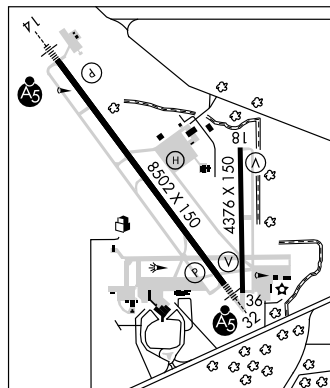
**ILS** 109.9 I-MOB Rwy 14. LOM WISLE NDB. LOM unmonitored.

**ILS** 111.5 I-ATE Rwy 32. Class IB.

**ASR** (1200-0500Z‡)

HELIPAD H1: H100X100 (ASPH)

**HELIPORT REMARKS:** Helipad H1 military use only helipad located at USCG apron.



**MONROE CO** (See MONROEVILLE)

**MONROEVILLE** N31°27.63' W87°21.17' NOTAM FILE ANB.

NEW ORLEANS

(L) **VORTAC** 116.8 MVC Chan 115 at Monroe Co. 420/04E.

L-22H

RCO 122.1R 116.8T (ANNISTON RADIO)

## MONROEVILLE

**MONROE CO** (MVC) 3 S UTC-6(-5DT) N31°27.48' W87°21.06'

NEW ORLEANS

419 B S1 FUEL 100LL, JET A, A+ NOTAM FILE ANB

H-6K, 9A, L-22H

**RWY 03-21:** H6028X100 (ASPH) S-70 MIRL

IAP

**RWY 03:** REIL. PAPI(P4L)—GA 3.0° TCH 59'. Tree.

**RWY 21:** REIL. PAPI(P4L)—GA 3.0° TCH 40'. Tree.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-0200Z‡, Sat-Sun  
 1400-2300Z‡. Jet A+ fuel avbl Mon-Fri 1400-0200Z‡, Sat-Sun  
 1500-2300Z‡; for fuel and other svcs after hrs only call  
 251-743-2024. Svcs during arpt hrs call 251-575-4235.

ACTIVATE PAPI Rwy 03 and Rwy 21 REIL Rwy 03 and Rwy  
 21—CTAF.

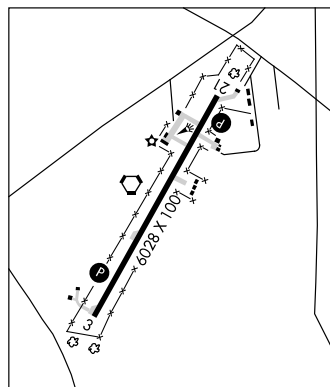
**COMMUNICATIONS:** CTAF/UNICOM 123.0

**MONROEVILLE RCO** 122.1R 116.8T (ANNISTON RADIO)

Ⓡ **ATLANTA CENTER APP/DEP CON** 118.55

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

**MONROEVILLE (L) VORTAC** 116.8 MVC Chan 115 N31°27.63'  
 W87°21.17' at fld. 420/04E.



**MONTGOMERY RGNL/DANNELLY FLD** (MGM) 6 SW UTC-6(-5DT) N32°18.04' W86°23.64' ATLANTA  
 221 B S4 FUEL 100LL, JET A OX 1, 2 TPA—See Remarks LRA H-6K, 9A, L-181  
 Class I, ARFF Index B NOTAM FILE MGM IAP, AD

**RWY 10-28:** H9010X150 (ASPH-GRVD) S-105, D-116, DT-180 PCN 35 F/C/X/T HIRL  
**RWY 10:** MALSR. PAPI(P4L)—GA 3.0° TCH 64'. Tree. Rgt tfc. 0.3% down.  
**RWY 28:** MALSR. PAPI(P4L)—GA 3.0° TCH 75'. Tree.  
**RWY 03-21:** H4010X150 (ASPH) S-40, D-95 PCN 28 F/C/X/T MIRL 0.9% up SW  
**RWY 03:** REIL. PAPI (P4L)—GA 3.0° TCH 43'. Fence. **RWY 21:** PAPI(P4L)—GA 3.0° TCH 40'. Tree.

**ARRESTING GEAR/SYSTEM**  
**RWY 10** HOOK BAK-12A(B) (1500') HOOK BAK-12A(B) (1509') **RWY 28**

**AIRPORT REMARKS:** Attended continuously. CAUTION: Bird haz. Ctc base ops for current bird watch condition. Do not mistake Maxwell AFB-6NM N for Montgomery Regional. Numerous helicopter and low speed acft invof arpt during dalgt hrs. CLOSED to unscheduled air carrier ops and large military acft requiring parking, except 72 hrs PPR contact arpt manager 334-281-5040. No 180° turns Rwy 10-28 by acft DC-9 or larger. Air carrier and large military acft should not taxi on Rwy 03-21. TPA-1200(979) for conventional acft, 1700(1479) jet acft. Rwy 10-28 DC10-10 DDT 320,000 pounds, DC10-30 and DC10-40 DDT 400,000 pounds, L-1011 DDT 350,000 pounds, B-747 DDT 500,000 pounds. When twr clsd HIRL Rwy 10-28 preset med ints and MIRL Rwy 03-21 preset on low ints. PAPI Rwy 03, Rwy 21, Rwy 10 and Rwy 28 opr continuously. ACTIVATE REIL Rwy 03, and MALSR Rwy 10 and Rwy 28-CTAF. Flight Notification Service (ADCUS) avbl.

**WEATHER DATA SOURCES:** ASOS (334) 288-0445. HIWAS 112.1 MGM. LLWAS.

**COMMUNICATIONS:** CTAF 119.7 ATIS 120.675 UNICOM 122.95  
 RCO 122.55 122.2 (ANNISTON RADIO)  
 RCO 122.1R 112.1T (ANNISTON RADIO)

Ⓡ APP/DEP CON 124.0 132.45 SOUTH 121.2 118.85 NORTH 112.1T (1200-0500Z‡)  
 Ⓡ ATLANTA CENTER APP/DEP CON 120.55 (0500-1200Z‡)  
 TOWER 119.7 (1200-0500Z‡) GND CON 121.7 CLNC DEL 118.3

**AIRSPACE:** CLASS D svc (1200-0500Z‡), other times CLASS E.  
 TRSA svc ctc APP CON.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MGM.

(H) VORTAC 112.1 MGM Chan 58 N32°13.34' W86°19.18' 318° 6 NM to fld. 270/03E.  
 HIWAS.

**MARRA NDB (LOM)** 245 MG N32°18.70' W86°30.64' 096° 6 NM to fld.  
 ILS 109.9 I-MGM Rwy 10. Class IA. LOM MARRA NDB (ILS unmonitored when twr clsd. OM and MM unmonitored)  
 ILS 108.5 I-DLV Rwy 28. Class IT. (ILS unmonitored when twr clsd. MM and OM unmonitored)  
 ASR (1200-0500Z‡)

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**MOONTOWN** (See HUNTSVILLE)

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**MOTON FLD MUNI** (See TUSKEGEE)

**MOUNDVILLE** (L44) 2S UTC-6(-5DT) N32°58.09' W87°38.43' ATLANTA  
 162 NOTAM FILE ANB Not insp.  
**RWY 18-36:** 2400X80 (TURF)  
**RWY 09-27:** 2053X100 (TURF)  
**RWY 09:** Trees.

**AIRPORT REMARKS:** Arpt CLOSED indef. Attended dalgt hrs. Parachute Jumping. Rwy 09-27 sides marked with white panels with rwy remaining indicators, thlds marked with white tires. Right turn as soon as possible when speed and altitude permit when departing Rwy 27.

**COMMUNICATIONS:** CTAF 122.9

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**MUSCLE SHOALS** N34°42.41' W87°29.49' NOTAM FILE MSL. ATLANTA  
 (L) VORTACW 116.5 MSL Chan 112 290° 6.3 NM to Northwest Alabama Rgnl. 580/01E. L-18H  
 DME unusable 046°-084° byd 25 NM blo 2000'.  
 RCO 122.4 122.2 (ANNISTON RADIO)

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**MUSCLE SHOALS****NORTHWEST ALABAMA RGNL** (MSL) 1 E UTC-6(-5DT) N34°44.72' W87°36.61'

551 B S2 FUEL 100LL, JET A TPA—See Remarks Class I, ARFF Index A

ATLANTA  
H-6K, 9A, L-18H  
IAP

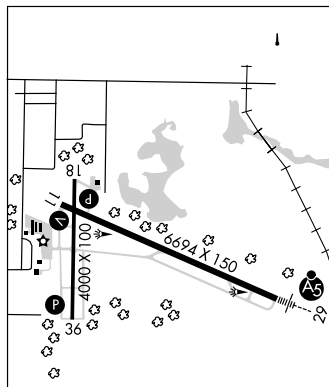
NOTAM FILE ANB

**RWY 11-29:** H6694X150 (ASPH-GRVD) S-59, D-98, ST-124,

DT-160 HIRL

**RWY 11:** REIL. VASI(V4R)—GA 3.0° TCH 51'.**RWY 29:** MALSR. Tower.**RWY 18-36:** H4000X100 (ASPH) S-30, D-50 MIRL**RWY 18:** PAPI(P4L)—GA 3.0° TCH 40'.**RWY 36:** PAPI(P4L)—GA 3.0° TCH 40'.

**AIRPORT REMARKS:** Attended 1200-0000Z± exc Thanksgiving, Christmas and New Years Day. For attendant ctc 256-383-2270. Fuel avbl nights call 256-383-2270. Fuel 100LL self serve avbl 24 hrs. PPR for unscheduled air carrier and charter ops with more than 30 passenger seats; call arpt manager 256-381-2869 ext 101 or fax 256-381-2915. TPA-1550 (1000) light acft 2050 (1500) turbo prop and jets. During calm winds preferred rwy is 29. No general aviation parking on air carrier ramp. Twy A is the preferred twy for air carrier and charter ops using the air carrier ramp. ACTIVATE HIRL Rwy 11-29; MIRL Rwy 18-36; PAPI Rwy 18 and Rwy 36; VASI and REIL Rwy 11; and MALSR Rwy 29—CTAF. Ldg fee and passenger facility charge for unscheduled air carrier and charter ops. Ldg fee for acft over 12,500 lbs.

**WEATHER DATA SOURCES:** ASOS 119.425 (256) 383-1033.**COMMUNICATIONS:** CTAF/UNICOM 123.05**MUSCLE SHOALS RCO** 122.4 122.2 (ANNISTON RADIO)**MEMPHIS CENTER APP/DEP CON** 120.8**AIRSPACE:** CLASS E svc 1200-0400Z± other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE MSL.**MUSCLE SHOALS (L) VORTACW** 116.5 MSL Chan 112 N34°42.41' W87°29.49' 290° 6.3 NM to fld. 580/01E.**ILS** 109.7 I-MSL Rwy 29. Class IE.**NORTHEAST ALABAMA RGNL** (See GADSDEN)**NORTH PICKENS** (See REFORM)**NORTHWEST ALABAMA RGNL** (See MUSCLE SHOALS)**ONEONTA****ROBBINS FLD** (20A) 5 NE UTC-6(-5DT) N33°58.26' W86°22.82'

1140 B S4 NOTAM FILE ANB

ATLANTA  
L-18I**RWY 05-23:** H4210X80 (ASPH) S-20, D-35, DT-55 MIRL**RWY 05:** Trees.**RWY 23:** Thld dsplcd 105'. Trees.**AIRPORT REMARKS:** Unattended. Deer on and invov arpt. ACTIVATE MIRL Rwy 05-23—CTAF.**COMMUNICATIONS:** CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE GAD.**GADSDEN (L) VOR/DME** 112.3 GAD Chan 70 N33°58.58' W86°05.01' 267° 14.8 NM to fld. 560/02E.**OPOLE** N32°30.55' W85°26.23' NOTAM FILE AUO.ATLANTA  
L-18I**NDB (LOM)** 423 AU 001° 6.4 NM to Auburn-Opelika Robert G. Pitts.



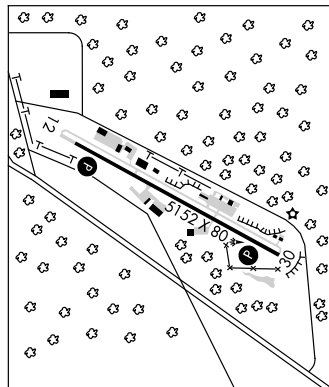
**OZARK****BLACKWELL FLD** (71J) 2 SE UTC-6(-5DT) N31°25.91' W85°37.23'**NEW ORLEANS**356 B S2 **FUEL** 100LL, JET A NOTAM FILE ANB

H-9A, L-221

**RWY 12-30:** H5152X80 (ASPH) D-25 MIRL 0.3% up NW**IAP****RWY 12:** REIL. PAPI(P4R)—GA 3.60° TCH 36'.**RWY 30:** PAPI(P4L)—GA 3.0° TCH 40'. Trees.**AIRPORT REMARKS:** Attended 1400-2300Z†. After hrs call

334-828-1893 or 334-403-0064. 24 hr credit card svc avbl.

Rwy and parallel twys centerline separation is 240 ft. Pilots departing Blackwell VFR to the E or N remain at 1500 ft MSL or bto until approximately 5 miles from the arpt to avoid conflict with tfc on IFR apch to the Dothan arpt. PAEW adjacent rwy and twy.

Low flying helicopters in tfc pattern. MIRL Rwy 12-30 preset med ints only 0000-1300Z†. **ACTIVATE** MIRL Rwy 12-30 and PAPI Rwy 12 and Rwy 30—CTAF.**COMMUNICATIONS:** CTAF/UNICOM 122.7Ⓡ **CAIRNS APP/DEP CON** 125.4 (Sun-Mon 1200-0500Z†, Tue-Sat 24 hrs), other times ctcⓇ **JACKSONVILLE CENTER APP/DEP CON** 134.3**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.**WIREGRASS (L) VORTAC** 111.6 RRS Chan 53 N31°17.08'W85°25.87' 310° 13.1 NM to fld. 347/02E. **HIWAS.****PELL CITY****ST CLAIR CO** (PLR) 3 SE UTC-6(-5DT) N33°33.53' W86°14.94'**ATLANTA**485 B S4 **FUEL** 100LL, JET A TPA-1285 (800) NOTAM FILE ANB

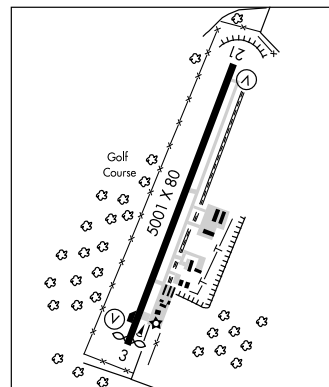
H-6K, 9A, 12F, L-181

**RWY 03-21:** H5001X80 (ASPH) S-30 MIRL**IAP****RWY 03:** VASI (V2L)—GA 3.0° TCH 20'. Thld dsplcd 50'. Road.**RWY 21:** VASI (V2L)—GA 3.0° TCH 20'. Fence.**AIRPORT REMARKS:** Attended Mon-Sat 1330-2300Z†, Sun1700-2300Z†. 100LL fuel 24 hr credit card svc avbl. For fuel after hrs call 205-369-0674. **ACTIVATE** MIRL Rwy 03-21—CTAF.

Rwy 03 and Rwy 21 VASI opr dusk-dawn.

**WEATHER DATA SOURCES:** AWOS-3 119.625 (205) 884-4359.**COMMUNICATIONS:** CTAF/UNICOM 123.05Ⓡ **BIRMINGHAM APP/DEP CON** 123.8**GCO** 121.725 (BHM CLNC DEL) **CLNC DEL** 121.725**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.**TALLADEGA (L) VOR/DME** 108.8 TDG Chan 25 N33°34.51'

W86°02.56' 263° 10.4 NM to fld. 530/02E.

**PINE HILL MUNI** (71A) 1 S UTC-6(-5DT) N31°58.13' W87°35.74'**NEW ORLEANS**

123 NOTAM FILE ANB

L-18H

**RWY 09-27:** H4462X80 (ASPH)**RWY 09:** Trees.**RWY 27:** Trees.**AIRPORT REMARKS:** Unattended. Rwy 09-27 cracking, alligator cracking with isolated distortion and raveling.**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.**MONROEVILLE (L) VORTAC** 116.8 MVC Chan 115 N31°27.63' W87°21.17' 334° 32.9 NM to fld. 420/04E.**POLLK** N32°16.19' W86°55.66' NOTAM FILE ANB.**ATLANTA****NDB (MHW/LOM)** 344 SE 326° 5.4 NM to Craig Fld.

L-18H

**POSEY FLD** (See HALEYVILLE)

**PRATTVILLE-GROUBY FLD** (1A9) 3 SW UTC-6(-5DT) N32°26.32' W86°30.76'

ATLANTA

225 B S4 FUEL 100LL, JET A TPA-1010(785) NOTAM FILE ANB

H-6K, 9A, L-181

RWY 09-27: H5400X100 (ASPH) S-30 MIRL 0.5% up W

IAP

RWY 09: PAPI(P4L)—GA 3.0° TCH 26'. Trees.

RWY 27: PAPI(P4L)—GA 3.0° TCH 32'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-0000Z†, Sat

1400-2300Z† and Sun 1600-2300Z†. Parachute Jumping. Sky

diving ops on Sat and Sun. Rwy 09 PAPI OTS indef. ACTIVATE

MIRL Rwy 09-27—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

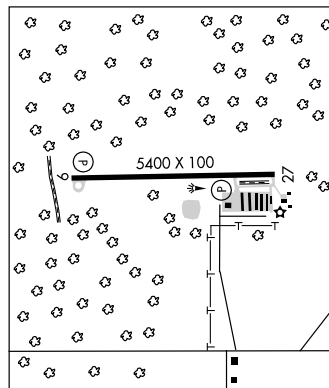
Ⓡ MONTGOMERY APP/DEP CON 121.2 (1200-0500Z†)

Ⓡ ATLANTA CENTER APP/DEP CON 120.55 (0500-1200Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE MGM.

MONTGOMERY (H) VORTAC 112.1 MGM Chan 58 N32°13.34'

W86°19.18' 320° 16.3 NM to fld. 270/03E. HIWAS.

**PRYOR FLD RGNL** (See DECATUR)**REDSTONE AAF** (HUA)(KHUA) A 6 SW UTC-6(-5DT) N34°40.72' W86°41.09'

ATLANTA

684 B TPA—See Remarks NOTAM FILE HUA Not insp.

H-6K, 9A, L-18H

RWY 17-35: H7297X150 (ASPH) PCN 43 R/B/W/T HIRL 0.4% up N

DIAP, AD

RWY 17: SALS. PAPI(P4L).

RWY 35: PAPI(P4L). Rgt ttc.

MILITARY SERVICE: LGT Rwy 17 and Rwy 35 PAPI GS/rwy reference point not coincidental. When twr clsd ACTIVATE

HIRL Rwy 17-35 and SALS Rwy 17—CTAF. FUEL J8 Avbl Mon-Fri 1330-2130Z† except holidays, other times on request. TRAN ALERT Ltd svc.

MILITARY REMARKS: Opr Mon-Fri 1300-2145Z†, except holidays. RSTD 24 hr PPR all acft, 48 hr PPR acft with Hazardous Cargo. Ctc Base OPS DSN 746-1916/4290 C256-876-1916/4290. Refueling expect delay. CAUTION Deer, turkey and coyote hazard. Acft larger than C-12 use extreme caution while taxiing due to minimum wing tip clearance. Restricted area 1200' west and 2.5 NM south of Rwy 17-35. TFC PAT Rotary wing 1400(716), fixed wing single engine 1700(1016), fixed wing turboprop/jet 2200(1516). TPA—Overhead 2700(2016). Avoid over flight satellite communication complex blo 2000' 1.8 NM SE of afld. MISC Limited parking. No photography allowed without Base OPS approval. Fixed wing larger than C130 rstd to Twy D, E and North Ramp area. LAWRS. All transient acft opr within R2104 must receive a range briefing from Base OPS prior to opr.

COMMUNICATIONS: CTAF 126.95

Ⓡ HUNTSVILLE APP/DEP CON 118.05 239.0 (181°-359°) 125.6 354.1 (360°-180°) (1200-0600Z†)

Ⓡ MEMPHIS CENTER APP/DEP CON 120.8 307.0 (0600-1200Z†)

TOWER 126.95 290.275 (Mon-Fri 1345-2130Z† except holidays, other times on request.) GCA 124.8 229.4

(Mon-Fri 1300-2130Z† except holidays, other times on request.) BASE OPS 126.2 (Mon-Fri 1300-2145Z† except holidays, other times on request.)

AIRSPACE: CLASS D svc Mon-Fri 1345-2130Z† except holidays or by NOTAM, other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE ANB.

ROCKET (L) VORTACW 112.2 RQZ Chan 59 N34°47.83' W86°38.03' 198° 7.5 NM to fld. 1199/2E.

NDB (MHW) 287 HUA N34°41.91' W86°41.28' 172° 1.2 NM to fld. Unmonitored when twr clsd.

ASR/PAR

COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima.

**REEVES** (See TALLASSEE)

**REFORM****NORTH PICKENS** (3M8) 1 N UTC-6(-5DT) N33°23.21' W88°00.40'**MEMPHIS**

237 B NOTAM FILE ANB

H-6K, L-18H

RWY 01-19: H5144X80 (ASPH) MIRL

IAP

RWY 01: REIL. TRVC(TRIL)—GA 6.0°. Thld dsplcd 138'. Trees. Rgt tfe.

RWY 19: REIL. TRVC(TRIL)—GA 5.0°. Tree.

**AIRPORT REMARKS:** Unattended. Rwy 01 5006' avbl for ngt ops. ACTIVATE MIRL Rwy 01-19, REIL Rwy 01 and Rwy 19 and TRVC Rwy 01 and Rwy 19—CTAF.**COMMUNICATIONS:** CTAF 122.9

Ⓡ COLUMBUS APP/DEP CON 135.6 (Mon-Fri 1300-1000Z, Sun 0700-2300Z, clsd Sat and hols.), other times ctc

Ⓡ MEMPHIS CENTER APP/DEP CON 127.1

**RADIO AIDS TO NAVIGATION:** NOTAM FILE GWO.**BIGBEE (L) VORTACW** 116.2 IGB Chan 109 N33°29.13' W88°30.82' 099° 26.1 NM to fld. 240/04E. HIWAS.**RICHARD ARTHUR FLD** (See FAYETTE)**ROANOKE MUNI** (7A5) 2 S UTC-6(-5DT) N33°07.76' W85°22.00'**ATLANTA**

907 B NOTAM FILE ANB

L-181

RWY 11-29: H3697X80 (ASPH) S-12 MIRL

RWY 11: Thld dsplcd 387'. Pole. RWY 29: Thld dsplcd 601'. Pole.

**AIRPORT REMARKS:** Unattended. Fuel avbl for emerg use—call 334-863-8976. For arpt emerg call 334-863-2121 (Police).**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE MCN.**LAGRANGE (H) VORTAC** 115.6 LGC Chan 103 N33°02.95' W85°12.37' 300° 9.4 NM to fld. 790/01E. HIWAS.**ROBBINS FLD** (See ONEONTA)**ROCKET** N34°47.83' W86°38.03' NOTAM FILE ANB.**ATLANTA**(L) **VORTACW** 112.2 RQZ Chan 59 042° 5.4 NM to Madison Co Executive/Tom Sharp Jr Fld. 1199/02E. L-18H

TACAN azimuth and DME unusable:

360°-024° byd 20 NM blo 4,000'

090°-159° byd 20 NM blo 3,500'

TACAN azimuth unusable:

025°-089° byd 6 NM

316°-359° byd 20 NM blo 3,500'

DME unusable:

025°-089° byd 6 NM blo 5,500'

**ROEBY** N33°36.46' W86°40.73' NOTAM FILE BHM.**ATLANTA****NDB (LOM)** 394 RO 235° 4.6 NM to Birmingham-Shuttlesworth Intl.

L-18H

**ROY E. RAY** (See BAYOU LA BATRE)**ROY WILCOX** (See CHATOM)**RUCKR** N31°13.54' W85°48.96' NOTAM FILE ANB.**NEW ORLEANS****NDB (MHW/LOM)** 212 OZ 061° 6.3 NM to Cairns AAF. NDB unmonitored 0500-1200Z.

L-221

**RUSSELLVILLE MUNI** (M22) 3 SE UTC-6(-5DT) N34°26.70' W87°42.70'**ATLANTA**

723 B S2 FUEL 100LL, JET A NOTAM FILE ANB

H-6K, 9A, L-18H

RWY 02-20: H5500X75 (ASPH) S-30 MIRL 0.5% up N

IAP

RWY 02: REIL. PAPI(P4L)—GA 3.0° TCH 40'.

RWY 20: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Thld dsplcd. 500'. Trees.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 02: TORA-5000 TODA-5500 ASDA-5500 LDA-5500

RWY 20: TORA-5500 TODA-5500 ASDA-5500 LDA-5000

**AIRPORT REMARKS:** Attended Mon-Sat 1500-2300Z. After hrs call 256-710-4739 or 256-766-1312. Birds invof west side AER 02. Rwy 02 REIL OTS indef. ACTIVATE MIRL Rwy 02-20—CTAF.**COMMUNICATIONS:** CTAF/UNICOM 122.8**MEMPHIS CENTER APP/DEP CON** 120.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE MSL.**MUSCLE SHOALS (L) VORTACW** 116.5 MSL Chan 112 N34°42.41' W87°29.49' 214° 19.1 NM to fld. 580/01E.

**ST CLAIR CO** (See PELL CITY)**ST ELMO** (2R5) 2 W UTC-6(-5DT) N30°30.12' W88°16.51'

NEW ORLEANS

132 B S4 NOTAM FILE ANB

L-21C, 22G

RWY 06-24: H3998X80 (ASPH) S-23 MIRL

RWY 06: Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z†, Sat-Sun 1400-0000Z†. ACTIVATE MIRL Rwy 06-24—122.75

COMMUNICATIONS: CTAF 122.9

MOBILE APP/DEP CON 121.0 (1200-0500Z†).

HOUSTON CENTER APP/CON 127.65 (0500-1200Z†).

RADIO AIDS TO NAVIGATION: NOTAM FILE BFM.

BROOKLEY (L) VORTAC 112.8 BFM Chan 75 N30°36.76' W88°03.33' 236° 13.2 NM to fld. 30/04E.

**SAMSON****LOGAN FLD** (1A4) 1 SW UTC-6(-5DT) N31°06.17' W86°03.73'

NEW ORLEANS

200 NOTAM FILE ANB

L-21C, 22H

RWY 05-23: H3256X75 (ASPH) LIRL

RWY 05: Thld dsplcd 722'. Trees. RWY 23: Thld dsplcd 693'. Trees.

AIRPORT REMARKS: Unattended. Rwy 05-23 surface very rough, weathered, raveled and loose aggregate. Rwy 05 has 19:1 slope to dsplcd thld. Rwy 23 has 23:1 slope to dsplcd thld. LIRL Rwy 05-23 OTS indef.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE ANB.

CAIRNS (L) VOR/DME 111.2 OZR Chan 49 N31°16.14' W85°43.58' 243° 19.9 NM to fld. 326/3W.

Unmonitored 0500-1200Z†.

**SARATOGA** N34°15.17' W86°13.42' NOTAM FILE ANB.

ATLANTA

NDB (MHW) 296 ARF 230° 2.1 NM to Albertville Rgnl-Thomas J Brumlik Fld.

L-18I

**SCOTTSBORO MUNI—WORD FLD** (4A6) 2 NE UTC-6(-5DT) N34°41.32' W86°00.36'

ATLANTA

650 B S2 FUEL 100LL, JET A TPA-1450(800) NOTAM FILE ANB

H-6K, 9A, L-18I

RWY 04-22: H5250X80 (ASPH) S-15 MIRL 0.4% up SW

IAP

RWY 04: REIL. PAPI(P4L). Trees. Rgt tfc. RWY 22: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Thld dsplcd 230'. Pole.

AIRPORT REMARKS: Attended dusk-dawn. For svc after hrs call 1-800-717-0844 extension 01 or 256-663-0874.

Red lgtd TV twr 1 mile SW. Additional obstructions for Rwy 04 are mountain 2500' from thld 3000' left and antenna 2800' from thld 4200' left. Rwy 22 lgtd thld dsplcd for night ops. For ngt ops Rwy 04 has 496' relocated thld 4104' avbl for use; Rwy 22 has 582' relocated thld 4018' avbl for use.

COMMUNICATIONS: CTAF/UNICOM 123.0

ATLANTA CENTER APP/DEP CON 133.8

RADIO AIDS TO NAVIGATION: NOTAM FILE GAD.

GADSDEN (L) VOR/DME 112.3 GAD Chan 70 N33°58.58' W86°05.01' 003° 42.8 NM to fld. 560/02E.

**SELMA** N32°26.34' W86°59.42'

ATLANTA

RCO 122.4 (ANNISTON RADIO)

L-18H

**SELMA****CRAIG FLD** (SEM) 4 SE UTC-6(-5DT) N32°20.64' W86°59.27'

166 B S4 FUEL 100LL, JET A NOTAM FILE ANB

RWY 15-33: H8002X150 (ASPH-CONC) S-33, D-54 HIRL

RWY 15: REIL. VASI(V12)—GA 3.0°. Trees.

RWY 33: MALS. REIL. VASI(V12)—GA 3.0°. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-2200Z†, Sat

1500-2100Z†. For fuel after hrs call 334-467-8809. ACTIVATE

HIRL Rwy 15-33, MALS Rwy 33, REIL Rwy 15 and Rwy 33—CTAF.

VASI Rwy 15 and Rwy 33 on continuously.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

Ⓡ MONTGOMERY APP/DEP CON 124.0 (1200-0500Z†)

Ⓡ ATLANTA CENTER APP/DEP CON 120.55 (0500-1200Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MGM.**JUNIOR (H) VORW/DME** 113.6 JYU Chan 83 N32°20.68'

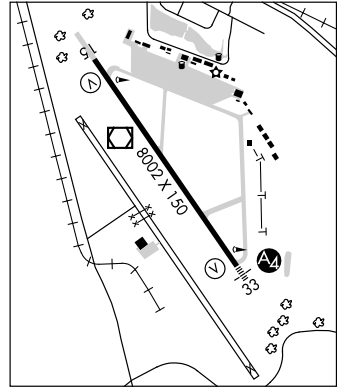
W86°59.48' at Fld. NOTAM FILE ANB. 160/OIW.

**POLLK NDB (MHW/LOM)** 344 SE N32°16.19' W86°55.66' 326°

5.4 NM to fld. NOTAM FILE ANB.

**ILS** 110.5 I-SEM Rwy 33. LOM POLLK NDB. ILS

unmonitored.

**ATLANTA**  
H-6K, 9A, L-18H  
IAP**SKYHARBOR** (S63) 5 SW UTC-6(-5DT) N32°22.01' W87°06.25'

125 S2 FUEL 100LL NOTAM FILE ANB

RWY 06-24: 2500X170 (TURF) LIRL (NSTD)

RWY 06: Tree.

RWY 24: Tree.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2100Z†. Arpt CLOSED indef. Rwy 06-24 marked with metal cones and tires. Rwy 06-24 NSTD LIRL, no thld lgts.**COMMUNICATIONS:** CTAF 122.9**ATLANTA****SEMMES** N30°43.56' W88°21.56' NOTAM FILE ANB.(H) **VORTACW** 115.3 SJJ Chan 100 104° 6.4 NM to Mobile Rgnl. 190/05E.

VOR portion unusable 023°-033°. DME unusable 268°-274° byd 30 NM blo 5500'.

**NEW ORLEANS**

H-6J, 8F, L-21C, 22G

**SHELBY CO** (See ALABASTER)**SKYHARBOR** (See SELMA)**SOUTH ALABAMA RGNL AT BILL BENTON FLD** (See ANDALUSIA-OPP)**SPRING HILL** N31°41.06' W85°58.46' NOTAM FILE ANB.**NDB (MHW)** 281 XNE 075° 9.2 NM to Brundidge Muni. Unmonitored Sun and Mon 0500-1200Z†.**NEW ORLEANS**

L-18I

**STEVENSON** (7A6) 2 NE UTC-6(-5DT) N34°53.18' W85°48.20'

644 B S4 FUEL 100LL OX 4 NOTAM FILE ANB

RWY 05-23: H4103X80 (ASPH) S-15 MIRL 0.5% up E

RWY 05: Trees. Rgt tfc.

RWY 23: P.line.

**AIRPORT REMARKS:** Attended 1500-2300Z†. Arpt CLOSED nights. ACTIVATE MIRL Rwy 05-23—CTAF.**COMMUNICATIONS:** CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE CHA.**CHOO CHOO (H) VORTAC** 115.8 GQO Chan 105 N34°57.68' W85°09.20' 261° 32.4 NM to fld. 1030/01E.

HIWAS.

**ATLANTA**

L-25A

**STOCKTON****HUBBARD LANDING SPB** (HL2) 5 SE UTC-6(-5DT) N31°03.82' W87°52.20'

8 NOTAM FILE ANB

Not insp.

**WATERWAY 16-34:** 6000X300 (WATER)**SEAPLANE REMARKS:** Attended SR-SS. Tour buoys in front of ramp area.**COMMUNICATIONS:** CTAF 122.9**NEW ORLEANS**

**SUMMERDALE** N30°29.95' W87°43.54' NOTAM FILE ANB.

NEW ORLEANS

NDB (MHW) 204 ESU 165° 4.5 NM to Foley Muni. NDB unusable 060°–280° byd 10 NM blo 3000'.  
NDB unusable byd 20 NM.

L-21C, 22H

**SYLACAUGA** N33°10.45' W86°19.09' NOTAM FILE ANB.

ATLANTA

NDB (MHW) 284 SCD at Merkel Fld Sylacauga Muni.

L-181

## SYLACAUGA

**MERKEL FLD SYLACAUGA MUNI** (SCD) 3 W UTC-6(-5DT) N33°10.31' W86°18.33'

ATLANTA

569 B S4 FUEL 100LL, JET A+ NOTAM FILE ANB

H-6K, 9A, L-181

RWY 09-27: H5390X100 (ASPH) S-20 MIRL 0.4% up W

IAP

RWY 09: REIL. PAPI(P2L). Hill. RWY 27: REIL. PAPI(P2L).

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z, Sat 1600-2300Z. Fuel 24 hr credit card svc avbl. Glider towing ops 3 NM radius blo 6,000' weekends 1500-0400Z. Deer on and invof arpt. 17' wide twy between main ramp twy and hangar area. ACTIVATE MIRL Rwy 09-27, PAPI Rwy 09 and Rwy 27 and REIL Rwy 09 and Rwy 27—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.125 (256) 249-2620.

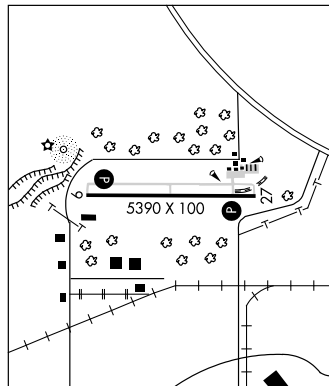
**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ BIRMINGHAM APP/DEP CON 123.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

TALLADEGA (L) VOR/DME 108.8 TDG Chan 25 N33°34.51' W86°02.56' 207° 27.5 NM to fld. 530/02E.

SYLACAUGA NDB (MHW) 284 SCD N33°10.45' W86°19.09' at fld.



**TALLADEGA MUNI** (ASN) 8 NE UTC-6(-5DT) N33°34.17' W86°03.07'

ATLANTA

529 B S2 FUEL 100LL, JET A Class IV, ARFF Index A NOTAM FILE ANB

H-9A, 12F, L-181

RWY 03-21: H6001X100 (ASPH-GRVD) S-30, D-65, ST-83, DT-95 MIRL 0.3% up NE

IAP

RWY 03: PAPI(P4L)—GA 3.0° TCH 65'. Rgt tffc.

RWY 21: PAPI(P4L)—GA 3.0° TCH 45'. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-2300Z, Sat-Sun 1500-2300Z. CLOSED to air carrier ops with more than 30 passenger seats except PPR call arpt manager 256-761-4815. Deer on and invof arpt. Rwy 03-21 MIRL OTS indef. ACTIVATE MIRL 03-21 and twy lgts—CTAF. PAPI Rwy 03 and Rwy 21 operate continuously.

**WEATHER DATA SOURCES:** AWOS-3 118.425 (256) 362-5847.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

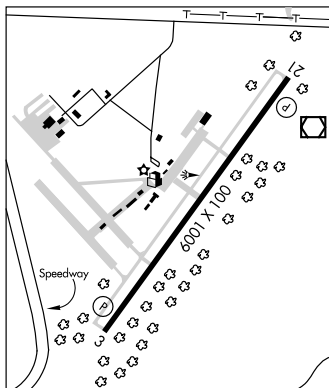
RCO 122.05R 108.8T (ANNISTON RADIO)

Ⓡ BIRMINGHAM APP/DEP CON 125.45

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

(L) VOR/DME 108.8 TDG Chan 25 N33°34.51' W86°02.56' at fld. 530/02E.

**COMM/NAV/WEATHER RMRKS:** Tmptry twr by NOTAM for special events.



## TALLASSEE

**REEVES** (41A) 2 SE UTC-6(-5DT) N32°30.90' W85°52.57'

ATLANTA

326 B OX 4 NOTAM FILE ANB

L-181

RWY 13-31: H3207X75 (ASPH) MIRL

RWY 13: Trees.

**AIRPORT REMARKS:** Unattended.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

TUSKEGEE (L) VOR/DME 117.3 TGE Chan 120 N32°29.09' W85°40.16' 278° 10.7 NM to fld. 490/2E.

**THOMAS C RUSSELL FLD** (See ALEXANDER CITY)**TROY MUNI** (TOI) 4 NW UTC-6(-5DT) N31°51.63' W86°00.73'**NEW ORLEANS**

398 B S4 FUEL 100LL, JET A NOTAM FILE TOI

H-9A, L-181

RWY 14-32: H5022X100 (ASPH) S-24, D-80, ST-101, DT-140 MIRL (NSTD) 0.6% up SE IAP

RWY 14: Trees. RWY 32: Tree.

RWY 07-25: H5009X100 (ASPH) S-24, D-80, ST-101, DT-140 MIRL

RWY 07: Trees RWY 25: VASI(V4R)—GA 3.0° TCH 44'. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1430-2330Z†. Except holidays, PPR for attendance at night call 334-566-3473. Fuel avbl Mon-Fri 1400-0000Z†, Sat-Sun 1400-2300Z†, after hrs call 334-566-3473. Extensive helicopter and flight training ops invof arpt 1230-2300Z† Mon-Fri except Holidays. No arrival/departure to/from N Helipad over FBO ramp. No running ldrgs on rwy or twy by skid-equipped helicopters. Rwy 14-32 NSTD MIRL located 35' from rwy edge, thld lghts located 17' from Rwy 32 end. ACTIVATE MIRL Rwy 14-32, Rwy 07-25 and VASI Rwy 25—CTAF.

**WEATHER DATA SOURCES:** ASOS (334) 566-3081.**COMMUNICATIONS:** CTAF/UNICOM 122.8 ATIS 120.925

Ⓡ **CAIRNS APP/DEP CON** 121.1 (Sun-Mon 1200-0500Z†, Tue-Sat 24 hrs), other times ctc

Ⓡ **ATLANTA CENTER APP/DEP CON** 120.55

TOWER 124.3 (Mon-Fri 1430-2230Z† except holidays)

GND CON 121.9

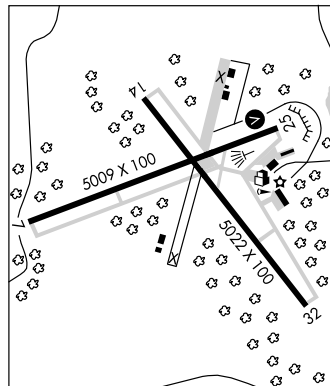
**AIRSPACE:** CLASS D svc Mon-Fri 1430-2230Z† except holidays other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE MGM.

**MONTGOMERY (H) VORTAC** 112.1 MGM Chan 58 N32°13.34' W86°19.18' 141° 26.8 NM to fld. 270/03E. HIWAS.

**BLOOD NDB (MHW/LDM)** 365 TO N31°49.82' W86°06.33' 070° 5.1 NM to fld.

**ILS** 108.9 I-TOI Rwy 07. Class IA. LOM BLOOD NDB. ILS unmonitored Mon-Fri 2230-1430Z†. Unmonitored Sat-Sun.

**ASR/PAR** (Mon-Fri 1415-2215Z† except holidays)

**TUSCALOOSA RGNL** (TCL) 3 NW UTC-6(-5DT) N33°13.24' W87°36.68'**ATLANTA**

170 B S4 FUEL 100LL, JET A OX 1, 2 LRA ARFF Index—See Remarks

H-6K, 9A, L-18H

NOTAM FILE TCL

IAP, AD

RWY 04-22: H6499X150 (ASPH-GRVD) S-90, D-133, ST-169, DT-200 HIRL

RWY 04: MALSR. RWY 22: PAPI(P4L)—GA 3.0° TCH 53'. Tree.

RWY 11-29: H4001X100 (ASPH) S-36, D-53, DT-93 MIRL

RWY 11: Tree. RWY 29: PAPI(P4R)—GA 3.0° TCH 52'. Trees.

**AIRPORT REMARKS:** Attended 1100-0400Z†. Rwy 11-29 CLOSED when twr not opr. Birds and deer invof rwy. Class IV, ARFF Index A. PPR 24 hrs for unscheduled air carrier ops with more than 30 passenger seats 0330-1100Z† call arpt manager 205-349-0114. Class I, ARFF Index B equipment avbl 24 hrs. Twy F and Twy L clsd from Twy F to Rwy 29 when twr not opr. When twr clsd ACTIVATE HIRL Rwy 04-22 (med ints only); MALSR Rwy 04; PAPI Rwy 22, and twy lghts—CTAF.

**WEATHER DATA SOURCES:** ASOS 132.825 (205) 750-8940.**COMMUNICATIONS:** CTAF 126.3 UNICOM 122.95

RCO 122.2 (ANNISTON RADIO)

Ⓡ **BIRMINGHAM APP/DEP CON** 120.15

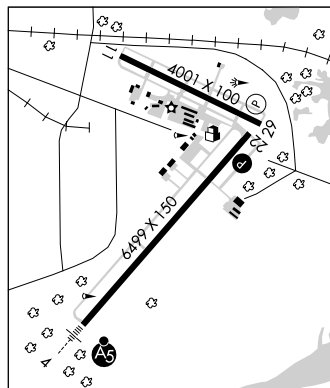
TOWER 126.3 (1300-0200Z†) GND CON 121.8

**AIRSPACE:** CLASS D svc 1300-0200Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

**CRIMSON (L) VORTAC** 117.8 LDK Chan 125 N33°15.53' W87°32.21' 236° 4.4 NM to fld. 370/03E.

**TUSKE NDB (LOM)** 362 TC N33° 09.51' W87°40.22' 039° 4.8 NM to fld. LOM unmonitored.

**ILS** 109.1 I-TCL Rwy 04. LOM TUSKE NDB. ILS unmonitored when twr clsd.

**TUSKE** N33°09.51' W87°40.22' NOTAM FILE TCL.**ATLANTA**

NDB (LOM) 362 TC 039° 4.8 NM to Tuscaloosa Rgnl. (Unmonitored).

L-18H

**TUSKEGEE** N32°29.09' W85°40.16' NOTAM FILE ANB.  
 (L) VOR/DME 117.3 TGE Chan 120 198° 1.6 NM to Moton Fld Muni. 490/02E.  
 RCO 122.1R 117.3T (ANNISTON RADIO) at Moton Fld Muni.

ATLANTA

L-181

**TUSKEGEE**

**MOTON FLD MUNI** (Ø6A) 3 N UTC-6(-5DT) N32°27.63' W85°40.80'

264 B FUEL 100LL, JET A NOTAM FILE ANB

RWY 13-31: H5003X100 (ASPH) S-28.5 MIRL

RWY 13: PAPI(P2L)—GA 3.0° TCH 30'.

RWY 31: PAPI(P2L)—GA 3.0° TCH 30'. Trees.

**AIRPORT REMARKS:** Attended 1200-2230Z†. For fuel after hrs call 334-727-7917. Parachute Jumping. ACTIVATE MIRL Rwy 13-31 and PAPI Rwy 13 and Rwy 31—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

TUSKEGEE RCO 122.1R 117.3T (ANNISTON RADIO)

Ⓡ ATLANTA APP/DEP CON 125.5 (blo 7000') 126.55 (7000' & abv) (1115-0500Z†)

ATLANTA CENTER APP/DEP CON 120.45 (0500-1115Z†)

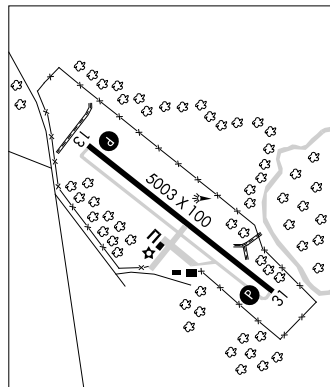
**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

TUSKEGEE (L) VOR/DME 117.3 TGE Chan 120 N32°29.09' W85°40.16' 198° 1.6 NM to fld. 490/02E.

ATLANTA

H-9A, L-181

IAP

**UNION SPRINGS**

**FRANKLIN FLD** (Ø7A) 5 W UTC-6(-5DT) N32°10.01' W85°48.58'

300 B FUEL 100 NOTAM FILE ANB

RWY 14-32: H3660X80 (ASPH) S-15 MIRL

RWY 14: Trees. RWY 32: Trees.

**AIRPORT REMARKS:** Unattended. Arpt CLOSED to ngt ops. Self-svc fuel avbl. Deer on and invof arpt. Rwy 14-32 has rough and uneven stretch of pavement from 600' to 1510' from AER 32. High ridge and swells on W half of rwy left side 700-1500' from Rwy 32. MIRL Rwy 14-32 OTS indef. ACTIVATE MIRL Rwy 14-32—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

TUSKEGEE (L) VOR/DME 117.3 TGE Chan 120 N32°29.09' W85°40.16' 199° 20.3 NM to fld. 490/02E.

ATLANTA

L-181

**VAIDEN FLD** (See MARION)

**VERNON**

**LAMAR CO** (M55) 6 N UTC-6(-5DT) N33°50.80' W88°06.93'

463 B NOTAM FILE ANB

RWY 17-35: H3613X75 (ASPH) S-16 MIRL

RWY 17: PVASI(PSIL). RWY 35: PVASI(PSIL). Trees.

**AIRPORT REMARKS:** Unattended. ACTIVATE MIRL Rwy 17-35—CTAF.

**COMMUNICATIONS:** CTAF 122.9

Ⓡ COLUMBUS APP/DEP CON 126.075 (1300-0100Z† Mon-Fri, 1600-2300Z† Sun, clsd Sat and holidays) other times ctc

MEMPHIS CENTER APP/DEP CON 127.1

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

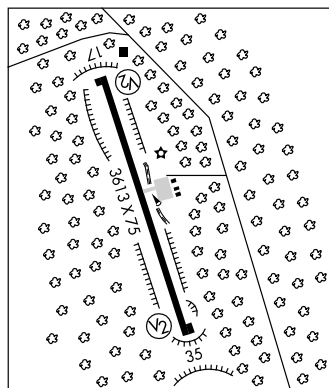
HAMILTON (L) VORTACW 110.4 HAB Chan 41 N34°11.93'

W88°00.70' 192° 21.7 NM to fld. 802/02E. HIWAS.

MEMPHIS

L-18H

IAP





**VULCAN** N33°40.21' W86°53.99' NOTAM FILE ANB.

ATLANTA

(H) VORTAC 114.4 VUZ Chan 91 129° 9.8 NM to Birmingham-Shuttlesworth Intl. 750/02E.

H-6K, 9A, L-18H

HIWAS

RCO 122.1R 114.4T (ANNISTON RADIO)

**WALKER CO-BEVILL FLD** (See JASPER)**WEAVER****MCMINN** (25A) 1 SW UTC-6(-5DT) N33°44.40' W85°49.55'

ATLANTA

680 S4 FUEL 100LL, MOGAS NOTAM FILE ANB

RWY 08-26: H2650X30 (ASPH)

RWY 08: Trees. Rgt tfc.

RWY 26: Thld dsplcd 300'. Trees.

**AIRPORT REMARKS:** Attended on call. For attendant call 256-820-2146/1954. Parachute Jumping. UNICOM not attended regularly. Rwy 26 NSTD dsplcd thld; 1' wide white bar no lgts; Dsplcd day ops only.**COMMUNICATIONS:** CTAF 123.05 UNICOM 122.8**WEEDON FLD** (See EUFAULA)**WETUMPKA MUNI** (Ø8A) 6 W UTC-6(-5DT) N32°31.77' W86°19.69'

ATLANTA

197 B S4 FUEL 100LL NOTAM FILE ANB

L-181

RWY 09-27: H3011X80 (ASPH) S-15 MIRL

IAP

RWY 27: Trees.

RWY 18-36: 2876X130 (TURF)

RWY 18: P-line.

RWY 36: Thld dsplcd 593'. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1400-2300Z†, Sun

1900-2300Z†. For arpt attendant after hrs call 334-285-4738.

Parachute Jumping. Banner towing ops on and invof arpt. Rwy 18 and Rwy 36 marked with 36 inch white cones. ACTIVATE MIRL Rwy 09-27-CTAF.

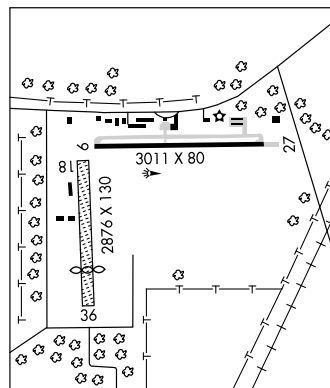
**COMMUNICATIONS:** CTAF/UNICOM 123.05

(R) MONTGOMERY APP/DEP CON 121.2 (1200-0500Z†)

(R) ATLANTA CENTER APP/DEP CON 120.45 (0500-1200Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MGM.**MONTGOMERY (H) VORTAC** 112.1 MGM Chan 58 N32°13.34'

W86°19.18' 356° 18.4 NM to fld. 270/03E. HIWAS.

**WIREGRASS** N31°17.08' W85°25.87' NOTAM FILE ANB.

NEW ORLEANS

(L) VORTAC 111.6 RRS Chan 53 335° 2.4 NM to Dothan Rgnl. 347/02E. HIWAS.

L-221

VOR portion unusable:

306°-319 byd 15NM blo 2000'

RCO 122.1R 111.6T (ANNISTON RADIO)

**WISLE** N30°45.64' W88°18.19' NOTAM FILE MOB.

NEW ORLEANS

NDB (HW/LOM) 248 MO 141° 5.2 NM to Mobile Rgnl. LOM and NDB unmonitored.

L-21C, 226

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## 2010 U.S. & CANADIAN MILITARY AERIAL AIRCRAFT/PARACHUTE DEMONSTRATIONS

During CY 2010, the U.S. and Canadian Military Aerial Demonstration Teams (Thunderbirds, Blue Angels, Snowbirds, and Golden Knights) will be performing on the dates and locations listed below.

Pilots should expect Temporary Flight Restrictions (TFR) in accordance with 14 CFR Section 91.145, Management of aircraft operations in the vicinity of aerial demonstrations and major sporting events. The dimensions and effective times of the TFRs may vary based upon the specific aerial demonstration event and will be issued via the U.S. NOTAM system. Pilots are strongly encouraged to check FDC NOTAMs to verify they have the most current information regarding these airspace restrictions.

The currently scheduled 2010 aerial demonstration locations, subject to change without notice, are:

DATE:	USAF Thunderbirds	USN Blue Angels	USA Golden Knights	Canadian Snowbirds
April 10-11	Eglin AFB, FL			
11		NAS Key West, FL		
17		Charleston AFB, SC		
17-18	Lakeland, FL			
24-25	Barksdale AFB, LA	Vidalia, GA	Ft. Lauderdale, FL	
24-25			Galena, FL	
May 1	Dyess AFB, TX			
2	Altus AFB, OK			
1-2		St. Joseph, MO		
8-9	Shaw AFB, SC	Tuscaloosa, AL	Shaw AFB, SC	Niagara Falls, NY
8-9			Tuscaloosa, AL	
13			Union, NJ	
15-16	Columbus AFB, MS	Andrews AFB, MD	Columbus AFB, MS	
15-16			Andrews AFB, MD	
22	Grand Forks AFB, ND			
22-23		MCAS Cherry Point, NC		
26	Colorado Springs, CO	Annapolis, MD		
29-30	Janesville, WI	Jones Beach, NY	Jones Beach, NY	
29-30			Janesville, WI	
June 5-6	Ocean City, MD	Eau Claire, WI	Eau Claire, WI	
5-6			Florence, SC	
12-13		Milwaukee, WI	Milwaukee, WI	
19-20		Cape Girardeau, MO	Cape Girardeau, MO	
19-20	Tinker AFB, OK		Gaylord, MI	
26-27	North Kingstown, RI	St. Cloud, MN	Findlay, OK	
July 3			Madison, WI	
3			Dubuque, IA	
3-4		Traverse City, MI		
4			Ft Bragg, NC	
10		Pensacola Beach, FL		
10-11	Gary, IN		Gary, IN	
17-18	Duluth, MN	Dayton, OH		
24-25	Fairchild AFB, WA	Idaho Falls, ID		
28	Cheyenne, WY			
29			Goshen, IN	
29			Ft AP Hill, VA	
31	Rockford, IL	Anchorage, AK	Rockford, IL	Elmendorf AFB, AK
31			Johnstown, PA	

DATE:		USAF Thunderbirds	USN Blue Angels	USA Golden Knights	Canadian Snowbirds
August	1	Rockford, IL	Anchorage, AK	Rockford, IL	Elmendorf AFB, AK
	1			Johnstown, PA	
	7-8	TBD	Seattle, WA		
	14-15		Chicago, IL	Chicago, IL	
	21-22	Westfield, MA		Westfield, MA	
	21-22			Kansas City, MO	
	25			Atlantic City, NJ	
	26			Ft Monroe, VA	
	28-29	Coney Island (Brooklyn), NY	Portsmouth, NH	Coney Island (Brooklyn), NY	
	28-29			Portsmouth, NH	
September	4-5	Martinsburg, WV		Cleveland, OH	
	4-5			Martinsburg, WV	
	4-6		Cleveland, OH		
	11-12	Corapolis (Pittsburgh), PA	Scott AFB, IL	Corapolis (Pittsburgh), PA	
	11-12			Scott AFB, IL	
	18-19	Whiteman AFB, MO	NAS Oceana, VA	Whiteman AFB, MO	Reno, NV
	25-26	McConnell AFB, KS	MCAS Kaneohe Bay, HI		
October	1-3		MCAS Miramar, CA		MCAS Miramar, CA
	2-3	Salinas, CA		MCAS Miramar, CA	
	2-3			Jackson, MS	
	9-10	Little Rock AFB, AR	San Francisco, CA	Little Rock, AFB, AR	Daytona Beach, FL
	16-17	El Paso, IX	Dobbins AFB, GA	El Paso, TX	Atlanta, GA
	23-24	Houston, TX	NAS Jacksonville, FL	Washington, DC	
	30-31	Cocoa Beach, FL	Ft Worth Alliance, TX	Ft Worth Alliance, TX	
November	6-7	Lackland AFB, TX	Homestead ARB, FL	Lackland AFB, TX	
	6-7			Homestead ARB, FL	
	11-14			Ft Bragg, NC	
	12-13		NAS Pensacola, FL		
	13-14	Nellis AFB, NV			

Note: Dates and locations are scheduled "show dates" only and do not reflect arrival or practice date TFR periods that may precede the specific aerial demonstration events listed above. Again, pilots are strongly encouraged to check FDC NOTAMS to verify they have the most current information regarding any airspace restrictions.

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**NOISE ABATEMENT PROCEDURES  
COVINGTON, KY, CINCINNATI/NORTHERN KENTUCKY INTL AIRPORT (CVG)**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no further than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

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**AEROBATIC PRACTICE AREA  
Jack Edwards Airport (JKA)  
Gulf Shores, AL**

Aerobatic flight activity will be conducted within a 2 NM radius of airport. Contact UNICOM for traffic and Anniston AFSS for specific times.

**Fayette County (FYE), Somerville, Tennessee**

Aerobatic training and practice is conducted in a 3500' symmetrical box located 500 feet west of Rwy 01-19 from the sfc to 4500 MSL. If surface winds favor Rwy 01, right traffic for that rwy is in effect when area is active.

Pilots should use caution within this area. For further information contact Jackson AFSS on 1-901-423-1289.

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**CONTROLLED FIRING AREA  
Milan, Tennessee**

Controlled Firing Area 5 NM radius 2500' & blo of MKL 030/018, eff. Mon-Fri 1200-2300Z, Sat 1530-2230Z, Sun 1230-1700Z.

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**Helicopter Activity  
Mosby Army Heliport, Dahlongega, GA Area**

Occasional military helicopter activity within 15NM radius of Mosby AHP, (34°37'N/84°06'W) SFC to 3700 MSL. Activity includes: flight formations, personnel transport operations, cargo para-drop operations (below 500 AGL), medical evacuation and night vision device training. CTAF 227.2, 139.3, "Mountain Ranger 08" FM 34.10. Staff Duty Officer, Camp Frank D. Merrill, (706) 864-3367.

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**NIGHT VISION LIGHTS OUT OPERATIONS  
North Carolina, South Carolina**

Military helicopter activity will be conducted for Night Vision Lights Out Training in North Carolina and South Carolina. Position lights will be extinguished or greatly reduced in intensity. The training is conducted in areas of low air traffic and not within four (4) miles of a public use airport. Training is IAW exemption to Far Part 91.

Boundaries: Beginning at Lat 35°41'N, Lon 78°30'W; to Lat 34°00'N, Lon 78°30'W; to Lat 34°00'N, Lon 80°00'W; to Lat 36°00'N, Lon 80°30'W; to point of beginning.

Times of use: Sunset to sunrise, daily.

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**Helicopter Activity  
Camp Blanding, Starke, Florida Area**

Heavy military helicopter activity within 9 NM radius Blanding AAF, (29°57'7.84"N; 81°58'47.32"W). Surface to 1,500 feet. Activity includes: flight formations, personnel transport operations, sling loads, MED VAC, and night vision goggle training. Mon-Sat 1300-0500Z, 1300-2000Z, Sun. Blanding Twr 123.0 by NOTAM, other times Range Control 123.0. (904) 533-3113/3352.

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**Cuban Flight Advisory  
(UNTIL FURTHER NOTICE)**

The Federal Aviation Administration has been informed that an official Cuban government publication has issued a warning that Cuban Armed Forces will shoot down any aircraft that penetrates Cuban Airspace illegally and refuses to obey an order to land for inspection.

All pilots should take note: use extreme caution in the area of Cuban Airspace; adhere strictly to Cuban requirements for overflight of their territory.

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**LASER LIGHT DEMONSTRATIONS****Lake Buena Vista, Florida**

A laser light demonstration will be conducted at Disney MGM Studios Theme Park, Lake Buena Vista, Florida (ORL 226 radial, 16.2 NM, LAT 28°21'42"N, LON 81°33'29"W), from 6:00 PM until 4:00 AM, until further advised. The beam may be injurious to eyes if viewed within 3,000 feet vertically and/or 12,000 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

**Lake Buena Vista, Florida**

A laser light demonstration will be conducted at Epcot Center, Lake Buena Vista, Florida (ORL 226 radial, 16 NM, lat 28°22'N, long 81°32'W), from 6:00 pm until 4:00 am, until further advised. The beam may be injurious to eyes if viewed within 5000 feet vertically and/or 1 nautical mile laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

**Miami, Florida**

A permanent laser light demonstration will be conducted at Bayfront Park, Miami, Florida (VKZ 312 radial, 2.24 NM, Lat 25°46'41"N, Lon 80°11'12"W), from 8:00 p.m. until 12:00 a.m. until further advised. The laser light beam is not expected to elevate above the horizon from a 90 foot high platform. Laser light beam may be injurious to eyes if viewed within 4,400 feet laterally of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

**Miami Beach, Florida**

A permanent Laser Light Demonstration will be conducted at the Amnesia Club, located in Miami Beach, Florida, Lat 25°46'N/Long 80°08'W, nightly from dusk until 2 AM.

Laser Light beam may be injurious to eyes if viewed within 3,500 feet vertically and/or 2,000 feet laterally of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

**Orlando, Florida**

A laser light demonstration will be conducted at Sea World of Florida, Orlando, Florida (ORL 220 radial, 11 NM, Lat 27°24'N, Long 81°27'W), from 6:30 pm until 12:00 am, until further advised. The beam may be injurious to eyes if viewed within 5000 feet vertically and/or 6500 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

A permanent laser light demonstration will be conducted at the Walt Disney World, Alien Encounter, Orlando, Florida, ORL VORTAC 239 radial, 15 nautical miles, from Dusk to 12:00 AM daily.

Laser light beam may be injurious to eyes if viewed within 2500 feet laterally and/or 2500 feet vertically of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

**Decatur, Georgia**

Laser light activity will be conducted at Agnes Scott College, Decatur, GA located at Lat 33° 45' 55"N/Long 84° 17' 39"W (ATL 041° radial, 11 NM), intermittent daily, at an angle of 90 degrees from the surface, projecting up to 14,036 feet, until further notice. Flash blindness or cockpit illumination may occur beyond these distances.

**Clemson, South Carolina**

A permanent laser light demonstration will be conducted at Clemson University, Clemson, South Carolina, ELW VORTAC 353R/18NM, from dusk until dawn, daily.

Laser light beam may be injurious to eyes if viewed within 3,500 feet laterally and/or 3,500 feet vertically of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

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**LASER LIGHT EXPERIMENT****Arecibo Observatory, Puerto Rico**

Location: 18°-20'-37"N 66°-45'-11"W

A Laser Light Beam Experiment will be conducted at the Arecibo Observatory, Puerto Rico (PSE 340/30), from one hour before sunset until one hour after sunrise twice weekly (by NOTAM).

Laser light beam may be injurious to eyes if viewed within 5,000 feet vertical and/or one nautical mile lateral of the light source. Cockpit illumination-flash blindness may occur beyond these distances.

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**MEMPHIS, TN****MEMPHIS INTL AIRPORT (MEM) NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no later than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

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**NASHVILLE, TN****NASHVILLE INTL AIRPORT (BNA) NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 20L and 20R are authorized, with course divergence beginning within 1 mile of the departure end of parallel runways, due to noise abatement restrictions.

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**CHARLOTTE, NC****CHARLOTTE/DOUGLAS INTL AIRPORT (CLT) NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no later than 3 miles from the departure end of parallel runways, due to noise abatement restrictions.

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**AIRSPACE DELEGATED TO MACDILL AFB, FL**

From 1100-2300 UTC (0700-1900 Local) daily, the following airspace that lies within the Tampa CLASS B Airspace will be delegated to MacDill AFB ATCT for airport traffic control services, and CLASS B Airspace services will not be provided within this portion of the CLASS B Airspace:

That airspace which extends from 1,200 feet MSL up to and including 1,600 feet MSL, south of a line located 1½ miles west of and parallel to MacDill AFB Runway 4/22 extended runway centerline, within a 4.5 NM radius from the geographical center of the MacDill AFB Airport.

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**Indianapolis ARTCC  
NABB, INDIANA AREA****New Hope, London, Lexington Kentucky Area**

Indianapolis Center has installed frequencies in the southern portion of their airspace that require 720-channel radio capability.

Pilots should be aware that if they fly in the Nabb, IN, or the New Hope, London, and Lexington, KY, area without a 720-channel radio, ATC services will be greatly reduced. Traffic advisories, weather information, airport information, along with any other direct communication services will not be available.

While in this area of Indianapolis Center, pilots without 720-channel capability will, in most cases, monitor Flight Service Stations. There will be a noticeable delay in all clearance activity. Please ensure that ATC has adequate lead time in the event of problems or clearance requirements.

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**HELICOPTER ACTIVITY ORLANDO, FL AREA.**

Heavy helicopter activity over the Disney attractions, Sea World, Universal Studios, Bay Hill and surrounding area. Surface to 1000' MSL. Operations 24 hours daily. Helicopters, transmitting and receiving on 123.02.

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**CAUTION-TETHERED AEROSTAT RADAR SYSTEM (TARS)**

A TARS (a large helium-filled balloon) operates continuously up to 14,000 feet, except during inclement weather or when the system is down for maintenance, in R-2916 at Cudjoe Key, Florida. The tether is unmarked and is virtually impossible to see from only a few hundred feet. See the Miami Sectional Chart for location.

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**SPECIAL NORTH ATLANTIC, CARIBBEAN AND PACIFIC AREA COMMUNICATIONS**

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

North Atlantic area:	123.45 MHz
Caribbean area:	123.45 MHz
Pacific area:	123.45 MHz

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**ST. PETERSBURG, FLORIDA**

Pilots planning to overfly the St. Petersburg VORTAC (PIE) below 13,000 feet MSL should file via the Lakeland VORTAC (LAL) between 1100 and 2300 UTC.

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**GEORGIA**

Atlanta Tower: Low altitude airway structure in proximity of the Hartsfield-Jackson Atlanta Intl Airport is aligned to provide bypass routes for traffic overflying Atlanta. To avoid heavy concentration of high performance and wide-bodied aircraft, pilots should file for airways beyond 35 nautical miles from Atlanta VOR. Aircraft operating IFR below 15,000 MSL, via airways within 35 nautical miles of Atlanta VOR may expect altitude changes and/or rerouting between the hours 0830 and 2100 local.

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**U.S. SPECIAL CUSTOMS REQUIREMENT**

Air Commerce Regulations of the Treasury Department's Customs Service require all private aircraft arriving in the U.S. from a foreign place in the Western Hemisphere, (a) south of 33 degrees north latitude which cross into the U.S. over a point on the U.S./Mexican border between 97 and 120 degrees west longitude, or (b) south of 31 degrees north latitude which enter the U.S. via the Gulf of Mexico and Atlantic Coasts, to provide notice of intended arrival to the Customs Service at least one hour prior to crossing the U.S./Mexican border or the U.S. coastline. This notice may be provided by: (1) radio through an appropriate FAA Flight Service Station, (2) normal FAA flight plan notification procedures (a flight plan filed in Mexico does not meet this requirement due to unreliable relay of data), or (3) directly to the District Director of Customs or other Customs officer at place of first intended landing. Unless an exemption has been granted by Customs, private aircraft are required to make first landing in the U.S. at one of the following designated airports nearest to the point of border or coastline crossing:

Brownsville/South Padre Island International, Corpus Christi International, Del Rio International, El Paso International, Laredo International, Maverick County Memorial International, McAllen Miller International, Presidio-Lely International, Southwest Texas Regional, or William P. Hobby Airport in Texas; Calexico International, or Brown Field Municipal in California; Bisbee Douglas International, Nogales International, Tuscon International, or Yuma MCAS/Yuma International in Arizona; Las Cruces Intl in New Mexico; Lakefront or Louis Armstrong New Orleans Intl in Louisiana; Fort Lauderdale Executive, Fort Lauderdale-Hollywood International, Key West International, Miami International, Opa-Locka Executive Airport, Palm Beach International, St. Lucie County International, or Tampa International in Florida.

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## MILITARY TRAINING ROUTES

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

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## CIVIL USE OF MILITARY FIELDS:

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission.

Army Installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations prior permission should be requested at least 30 days prior to first intended landing. An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the nearest U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

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## AIRCRAFT RESTRICTIONS BOCA RATON AIRPORT (BCT), FLORIDA

On initial contact, pilot should advise local Air Traffic Control Tower or announce on local Unicom frequency if aircraft has greater than 79 feet wingspan and/or greater than 140 knot approach speed. Aircraft with wingspan greater than 79 feet and/or an approach speed greater than 140 knots are prohibited from using Runway 5/23 while any aircraft occupies Taxiway P. Aircraft with a wingspan greater than 79 feet must remain clear of Taxiway P while any aircraft are approaching or departing Runway 5/23.

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## AIRCRAFT LANDING RESTRICTIONS

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands or waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

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## FEDERAL AVIATION REGULATION 91.713

The provisions of FAR 91.713 will apply as follows:

Air traffic clearances to aircraft of Cuban registry not engaged in scheduled International Air Service in U.S. airspace will require that the flight plan be filed with appropriate authorities at least five days prior to the proposed departure time. Route changes while en route will normally not be authorized. The procedures set forth herein do not apply at this time to overflights by aircraft of Cuban registry engaged in scheduled International Air Service.

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## CAUTION—HIGH DENSITY AIR TRAFFIC AREA

Heavy helicopter and seaplane traffic exists over the Gulf of Mexico and adjacent onshore areas. Thousands of operations per month occur in this area in support of oil drilling and exploration.

Itinerant pilots traversing this area should familiarize themselves with offshore operating practices and frequencies through contact with the pertinent Flight Standards District Office (FSDO) or Flight Service Station.

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### CONTINUOUS POWER FACILITIES

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply.

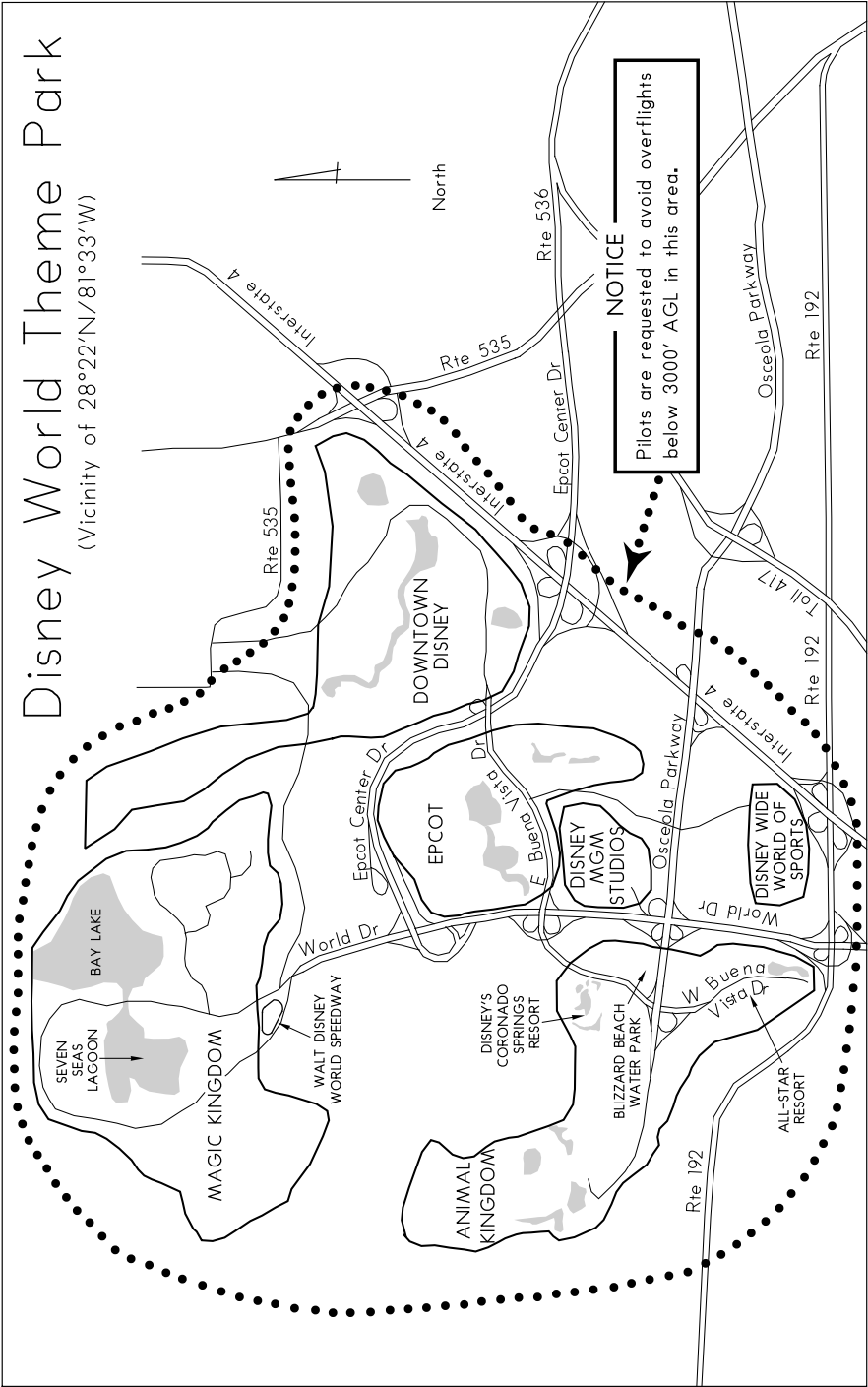
In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been included in this program for a selected runway.

1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)
2. Wind Measuring Capability
3. Approach Light System (ALS) or Short ALS (SALS)
4. Ceiling Measuring Capability
5. Touchdown Zone Lighting (TDZL)
6. Centerline Lighting (CL)
7. Runway Visual Range (RVR)
8. High Intensity Runway Lighting (HIRL)
9. Taxiway Lighting
10. Apron Light (Perimeter Only)

The following have been designated "Continuous Power Airports," and have independent back up capability for the equipment installed.

Airport/Ident	Runway No.	Airport/Ident	Runway No.
Albuquerque, NM (ABQ) .....	08	Milwaukee, WI (MKE) .....	01L
Anchorage, AK (ANC) .....	07R	Minneapolis, MN (MSP) .....	30L
Andrews AFB, MD (ADW) .....	01L	Nashville, TN (BNA) .....	02L
Atlanta, GA (ATL) .....	09R	New Orleans, LA (MSY) .....	10
Baltimore, MD (BWI) .....	10	New York, NY (JFK) .....	04R
Bismarck, ND (BIS) .....	31	New York, NY (LGA) .....	22
Boise, ID (BOI) .....	10R	Newark, NJ (EWR) .....	04R
Boston, MA (BOS) .....	04R	Oklahoma City, OK (OKC) .....	35R
Charlotte, NC (CLT) .....	36L	Omaha, NE (OMA) .....	14R
Chicago, IL (ORD) .....	14R	Ontario, CA (ONT) .....	26L
Cincinnati, OH (CVG) .....	36C	Philadelphia, PA (PHL) .....	09R
Cleveland, OH (CLE) .....	06R	Phoenix, AZ (PHX) .....	08
Dallas/Fort Worth, TX (DFW) .....	17C	Pittsburgh, PA (PIT) .....	10L
Denver, CO (DEN) .....	35R	Reno, NV (RNO) .....	16R
Des Moines, IA (DSM) .....	31	Salt Lake City, UT (SLC) .....	34L
Detroit, MI (DTW) .....	03R	San Antonio, TX (SAT) .....	12R
El Paso, TX (ELP) .....	22	San Diego, CA (SAN) .....	09
Fairbanks, AK (FAI) .....	01L	San Francisco, CA (SFO) .....	28R
Great Falls, MT (GTF) .....	03	San Juan, PR (SJU) .....	08
Honolulu, HI (HNL) .....	08L	Seattle, WA (SEA) .....	16C
Houston, TX (IAH) .....	26L	St. Louis, MO (STL) .....	30R
Indianapolis, IN (IND) .....	05L	Tampa, FL (TPA) .....	36L
Jacksonville, FL (JAX) .....	07	Tulsa, OK (TUL) .....	36R
Kansas City, MO (MCI) .....	19R	Washington, DC (DCA) .....	01
Los Angeles, CA (LAX) .....	24R	Washington, DC (IAD) .....	01R
Memphis, TN (MEM) .....	36L	Wichita, KS (ICT) .....	01L
Miami, FL (MIA) .....	08R		

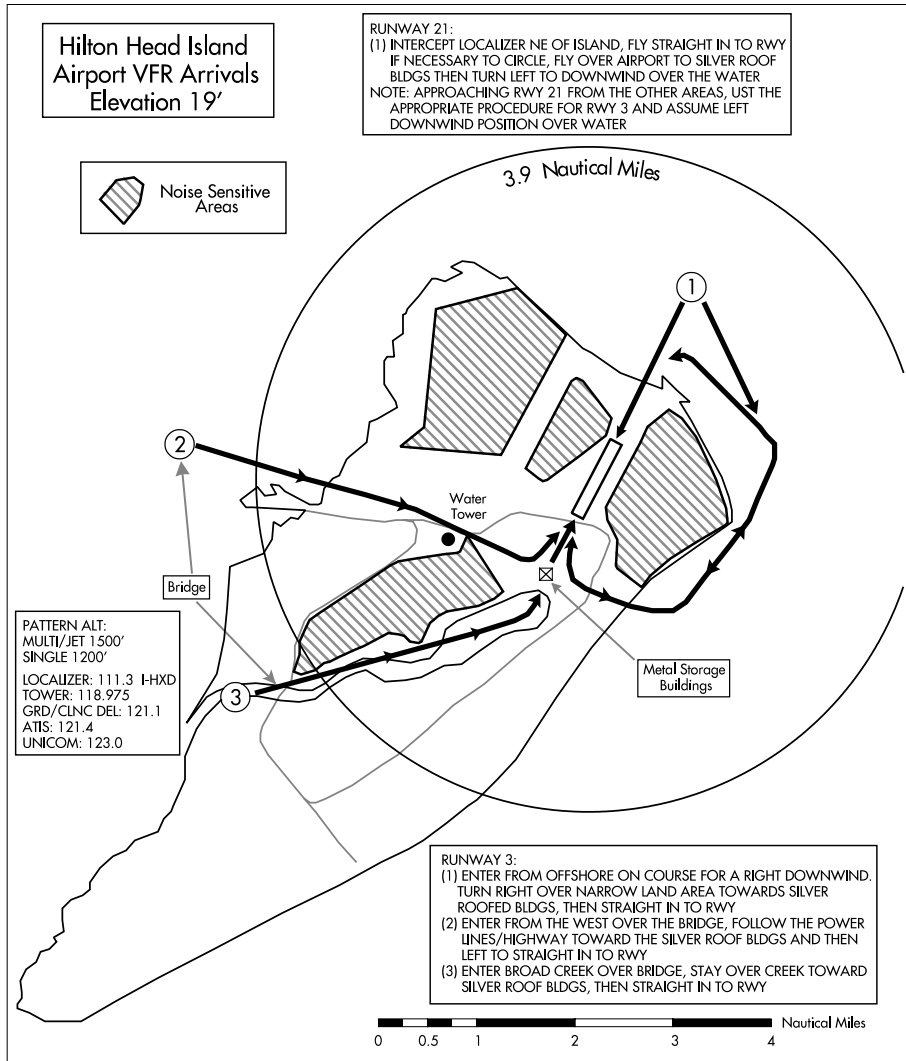
**NOTE**—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway designation.

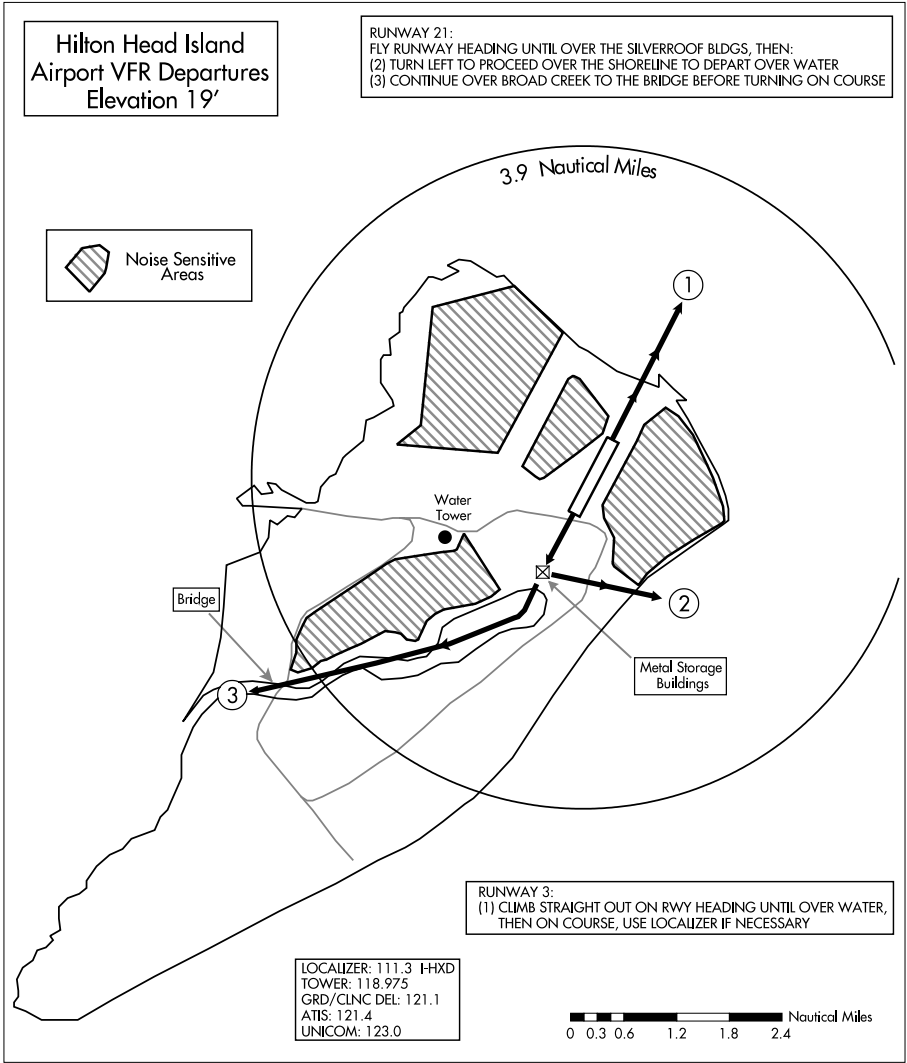


**DISNEY WORLD THEME PARK****NOTICE**

Pursuant to Public Law 108–199, Section 521, aircraft flight operations are prohibited at and below 3,000 feet AGL within a 3 nautical mile radius of the Disney World Theme Park (282445N/081342W or the Orlando (ORL) VORTAC 238 degree radial at 14.8 nautical miles). This restriction does not apply to: (A) those aircraft authorized by ATC for operational or safety purposes, including aircraft arriving or departing from an airport using standard air traffic procedures; (B) Department of Defense, law enforcement, or aeromedical flight operations that are in contact with ATC; Those who meet any of the following criteria may apply for a waiver to these restrictions: (A) for operational purposes of the venue, including the transportation of equipment or officials of the governing body; (b) for safety and security purposes of the venue.

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## BOWMAN FIELD

LOUISVILLE, KY

## TERMINAL AREA GRAPHIC NOTICE

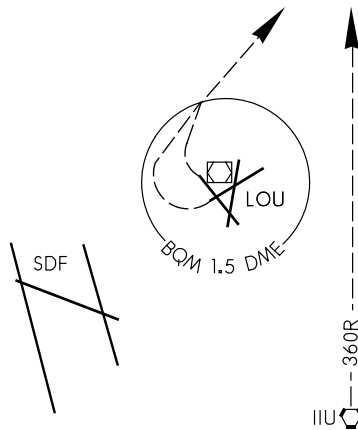
(Not to be used for navigation)

Bowman Airport Runway 24 and Runway 33 VFR Departure Procedure.

"SENECA DEPARTURE"

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.

ATIS 112.2  
 LOUISVILLE APP CON  
 132.075  
 BOWMAN TOWER★  
 119.5  
 GND CON  
 121.8  
 CLNC DEL  
 118.9



Remaining within  $1\frac{1}{2}$  miles from Bowman VOR (BQM), turn right heading 045, maintaining VFR at or below 2500 feet. Expect IFR activation and climb upon crossing the IIU 360 radial

**WEATHER MINIMUMS:** Ceiling 3000 and visibility 3 miles.

**NOTE:** Receipt of a clearance to climb above 2500 feet constitutes activation of IFR clearance upon leaving 2500 feet.

**HOLLYWOOD/NORTH PERRY (HWO)****HOLLYWOOD, FL**

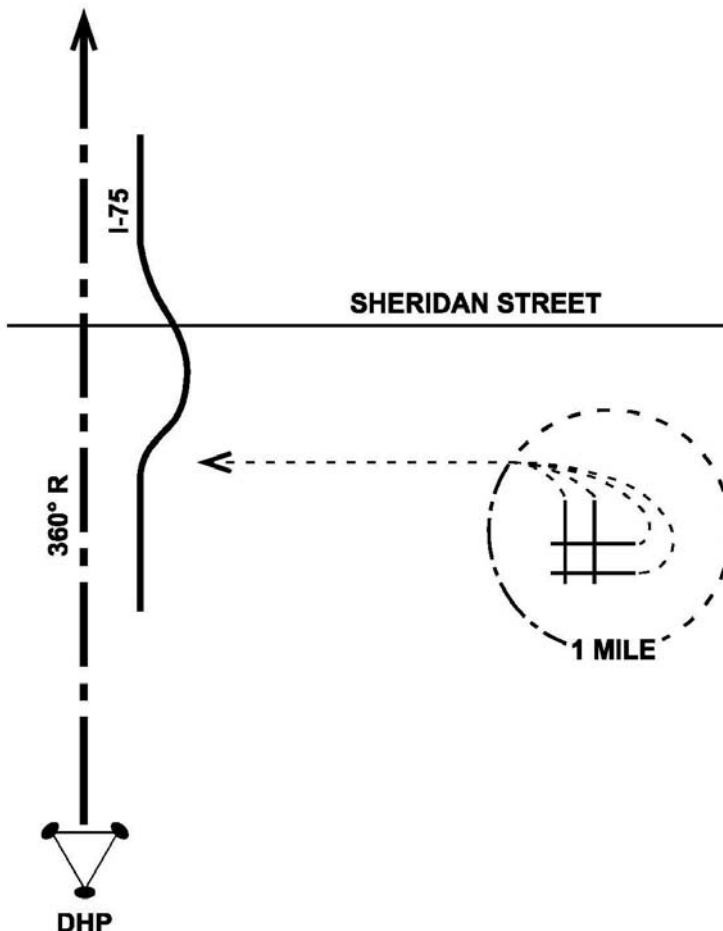
TERMINAL AREA GRAPHIC NOTICE

(Not to be used for navigation)

Hollywood/North Perry Airport Runway 9L, 9R, 36L and 36R VFR Departure Procedure.

**"SHERIDAN DEPARTURE"**

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.



ATIS 135.475

MIAMI APPROACH CONTROL 128.6

NORTH PERRY TOWER 132.1

GROUND CONTROL 120.45

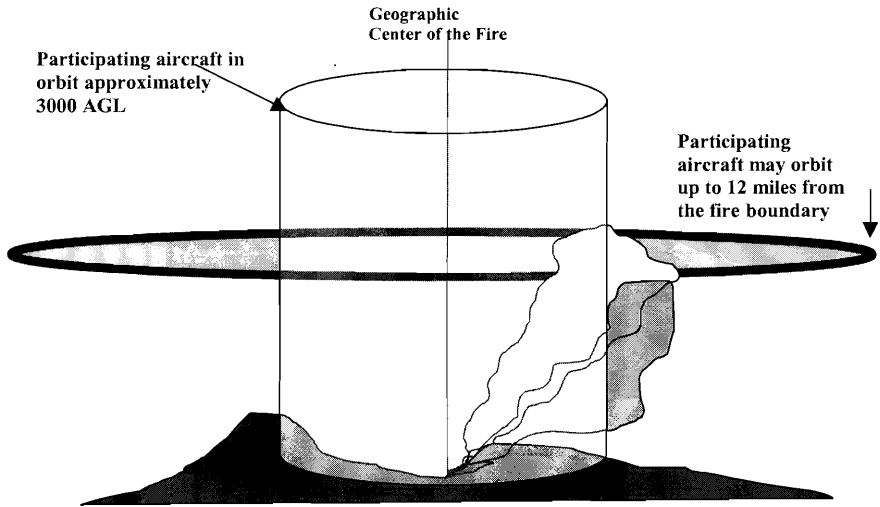
Remain within 1 mile from HWO airport, if departing north or east turn left to heading 260. Remain south of Sheridan Street VFR at or below 1500. Expect IFR activation and climb crossing I75 (5 miles west of HWO) or the DHP 360 radial.

WEATHER MINIMUMS: Ceiling 2000 and visibility 3 miles.

NOTE: Receipt of a clearance to climb above 1500 constitutes activation of IFR clearance.



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**FIREFIGHTING TRAFFIC AREAS**

Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.

The following narratives summarize the FAR Part 93 Special Air Traffic Rules, Patterns, and/or Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

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### **DESTIN-FT WALTON BEACH, FLORIDA VALPARAISO TERMINAL AREA**

Part 93, Subpart F, prescribes that Valparaiso, Florida, Terminal Area, and the special air traffic rules for operating aircraft within specific corridor.

– North-South Corridor.

Before operating within the corridor, obtain a clearance from the Eglin Radar Control Facility or an appropriate FAA ATC facility, and maintain two-way radio communication with the Eglin Radar Control Facility while within the corridor.

– East-West Corridor.

Before operating within the corridor, establish two-way radio communications with Eglin Radar Control Facility or an appropriate FAA ATC facility for an ATC advisory concerning operations being conducted therein; and maintain two-way radio communications with the Eglin Radar Control Facility while within the corridor. For Destin/Eglin AFB FL Part 93 Operations details, see FAA Safety.gov Knowledge Course at: [http://faasafety.gov/gslac/ALC/course\\_catalog.aspx](http://faasafety.gov/gslac/ALC/course_catalog.aspx).

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### **OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY, LAGUARDIA, AND WASHINGTON REAGAN NATIONAL**

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93-1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at <http://www.faa.gov>. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll-free telephone number for accessing e-CVRS is 1-800-875-9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll-free areas may access e-CVRS by calling the toll number of 703-707-0568. The Internet web address for accessing the e-CVRS is <http://www.fly.faa.gov/ecvrs>. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904-4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904-4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

**NOTE:** Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e-CVRS.

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## FSS TELEPHONE NUMBERS

**Flight Service Station (FSS)** facilities provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a network of large hub facilities and smaller remote facilities which are interconnected with the hubs.

**Selected remote FSS** facilities across the contiguous United States have variable part-time operating hours. Because of the interconnectivity between remote and hub facilities, all FSS services are available continuously using published telephone numbers and radio frequencies.

### SOUTHEAST U.S.

**FLORIDA:** St. Petersburg, St. Petersburg–Clearwater International (PIE) — **PIE FSS**

**NORTH CAROLINA:** Raleigh, Raleigh–Durham International (RDU) — **RDU FSS**

**TENNESSEE:** Nashville, Nashville International (BNA) — **BNA FSS**

**Telephone Information Briefing Service (TIBS)** is a FSS service that provides continuous recordings of meteorological and/or aeronautical information including area and/or route briefings, airspace procedures and special announcements. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

### NATIONAL FSS TELEPHONE NUMBER

Pilot Weather Briefings ..... 1-800-WX-BRIEF (1-800-992-7433)

### OTHER FSS TELEPHONE NUMBERS (except in Alaska)

TIBS (see description above) ..... 1-877-4TIBS-WX (1-877-484-2799)  
 Clearance Delivery Only ..... 1-888-766-8267  
 Lifeguard Flights Only ..... 1-877-LIF-GRD3 (1-877-543-4733)  
 Flights within DC SFRA & FRZ\* ..... 1-866-225-7410

\* District of Columbia Special Flight Rules Area & Flight Restricted Zone

# **KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)**

**TAF KPIT 091730Z 091818 15005KT 5SM HZ.FEW020 WS010/31022KT**  
**FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA**  
**OVC008CB**  
**FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR**  
**FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC**

**METAR KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB**  
**18/16 A2992 RMK SLP045 T01820159**

Forecast	Explanation	Report
<b>TAF</b>	Message type: <u>TAF</u> -routine or <u>TAF AMD</u> -amended forecast, <u>METAR</u> -hourly, <u>SPECI</u> -special or <u>TESTM</u> -non-commissioned ASOS report	<b>METAR</b>
<b>KPIT</b>	ICAO location indicator	<b>KPIT</b>
<b>091730Z</b>	Issuance time: ALL times in UTC " <u>Z</u> ", 2-digit date, 4-digit time	<b>091955Z</b>
<b>091818</b>	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times	
	In U.S. <b>METAR</b> : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on	<b>COR</b>
<b>15005KT</b>	Wind: 3 digit true-north direction, nearest 10 degrees (or <u>Var</u> ia <u>ble</u> ); next 2-3 digits for speed and unit, <u>KT</u> (KMH or MPS); as needed, <u>Gust</u> and maximum speed; 00000KT for calm; for <b>METAR</b> , if direction varies 60 degrees or more, <u>Variability</u> appended, e.g. 180 <u>V</u> 260	<b>22015G25KT</b>
<b>5SM</b>	Prevailing visibility: in U.S., <u>Statute</u> <u>M</u> iles & fractions; above 6 miles in <b>TAF</b> <u>Plus</u> 6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	<b>3/4SM</b>
	Runway Visual Range: <u>R</u> ; 2-digit runway designator <u>Left</u> , <u>Center</u> , or <u>Right</u> as needed; <u>'</u> / <u>'</u> ; <u>Minus</u> or <u>Plus</u> in U.S., 4-digit value, <u>Fee</u> <u>T</u> in U.S., (usually meters elsewhere); 4-digit value <u>Variability</u> 4-digit value (and tendency <u>Down</u> , <u>Up</u> or <u>No</u> change)	<b>R28L/2600FT</b>
<b>HZ</b>	Significant present, forecast and recent weather: see table (on back)	<b>TSRA</b>
<b>FEW020</b>	Cloud amount, height and type: <u>SKY</u> <u>C</u> lear 0/8, <u>FEW</u> >0/8-2/8, <u>SCa</u> tered 3/8-4/8, <u>Bro</u> ke <u>N</u> 5/8-7/8, <u>O</u> ver <u>C</u> ast 8/8; 3-digit height in hundreds of ft; <u>T</u> owering <u>C</u> umulus or <u>C</u> umulonim <u>B</u> us in <b>METAR</b> ; in <b>TAF</b> , only <u>CB</u> . <u>V</u> ertical <u>V</u> isibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated <b>METAR</b> reports only, <u>C</u> lea <u>R</u> for "clear below 12,000 feet"	<b>OVC010CB</b>
	Temperature: degrees Celsius; first 2 digits, temperature <u>'</u> / <u>'</u> last 2 digits, dew-point temperature; <u>Minus</u> for below zero, e.g., M06	<b>18/16</b>
	Altimeter setting: indicator and 4 digits; in U.S., <u>A</u> -inches and hundredths; ( <u>Q</u> -hectoPascals, e.g., Q1013)	<b>A2992</b>

# KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

Forecast	Explanation	Report
<b>WS010/31022KT</b>	In U.S. <b>TAF</b> , non-convective low-level ( $\leq 2,000$ ft) <u>Wind Shear</u> ; 3-digit height (hundreds of ft); <u>"Z"</u> ; 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, <u>KT</u>	<b>RMK</b> <b>SLP045</b> <b>T01820159</b>
<b>FM1930</b>	In <b>METAR</b> , <u>ReMark</u> indicator & remarks. For example: <u>Sea-Level Pressure</u> in hectoPascals & tenths, as shown: 1004.5 hPa; <u>Temp/dew-point</u> in tenths °C, as shown: temp. 18.2°C, dew-point 15.9°C	
<b>TEMPO 2022</b>	<u>From</u> and 2-digit hour and 2-digit minute <b>beginning</b> time: indicates significant change. Each FM starts on new line, indented 5 spaces.	
<b>PROB40 0407</b>	<b>TEMPO</b> rary: changes expected for < 1 hour and in total, < half of 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	
<b>BECMG 1315</b>	<b>PROB</b> ability and 2-digit percent (30 or 40): probable condition during 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	
	<b>BECOM</b> ing: change expected during 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	

Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather.

## QUALIFIER

### Intensity or Proximity

- Light "no sign" Moderate + Heavy

VC Vicinity: but not at aerodrome; in U.S. **METAR**, between 5 and 10SM of the point(s) of observation; in U.S. **TAF**, 5 to 10SM from center of runway complex (elsewhere within 8000m)

### Descriptor

MI Shallow	BC Patches	PR Partial	TS Thunderstorm
BL Blowing	SH Showers	DR Drifting	FZ Freezing

## WEATHER PHENOMENA

### Precipitation

DZ Drizzle	RA Rain	SN Snow	SG Snow grains
IC Ice crystals	PL Ice pellets	GR Hail	GS Small hail/snow pellets
UP Unknown precipitation in automated observations			

### Obscuration

BR Mist ( $\geq 5/8$ SM)	FG Fog ( $< 5/8$ SM)	FU Smoke	VA Volcanic ash
SA Sand	HZ Haze	PY Spray	DU Widespread dust

### Other

SQ Squall	SS Sandstorm	DS Duststorm	PO Well developed dust/sand whirles
FC Funnel cloud	+FC tornado/waterspout		

- Explanations in parentheses "( )" indicate different worldwide practices.
- Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.
- NWS **TAFs** exclude turbulence, icing & temperature forecasts; NWS **METARs** exclude trend fcsts
- Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility  $\geq 10$  km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

UNITED STATES DEPARTMENT OF COMMERCE

NOAA/PA 96052

National Oceanic and Atmospheric Administration—National Weather Service

# FAA AND NWS

## KEY AIR TRAFFIC FACILITIES

### Air Traffic Control System Command Center

Main Number.....703-904-4400

#### RGNL AIR TRAFFIC DIVISIONS

REGION	TELEPHONE
Alaskan	907-271-5464
Central	816-329-2500
Eastern	718-553-4502
Great Lakes	847-294-7202
New England	781-238-7500
Northwest Mountain	425-227-2500
Southern	404-305-5500
Southwest	817-222-5500
Western Pacific	310-725-6500

#### AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m.-4:00 p.m.	505-856-4300
Anchorage	907-271-5936	7:30 a.m.-4:00 p.m.	907-269-1137
Atlanta	404-305-5180	7:30 a.m.-5:00 p.m.	770-210-7601
Boston	617-238-7001	7:30 a.m.-4:00 p.m.	603-879-6633
Chicago	847-294-8400	8:00 a.m.-4:00 p.m.	630-906-8221
Cleveland	847-294-8400	8:00 a.m.-4:00 p.m.	440-774-0310
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-651-4100
Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	817-858-7300
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-5300
Indianapolis	847-294-8400	8:00 a.m.-4:00 p.m.	317-247-2231
Jacksonville	404-305-5180	8:00 a.m.-4:30 p.m.	904-549-1501
Kansas City	816-329-3000	7:30 a.m.-4:00 p.m.	913-254-8500
Los Angeles	661-265-8200	7:30 a.m.-4:00 p.m.	661-265-8200
Memphis	404-305-5180	7:30 a.m.-4:00 p.m.	901-368-8103
Miami	404-305-5180	7:00 a.m.-3:30 p.m.	305-716-1500
Minneapolis	847-294-8400	8:00 a.m.-4:00 p.m.	651-463-5580
New York	718-995-5426	8:00 a.m.-4:40 p.m.	516-468-1001
Oakland	310-725-3300	6:30 a.m.-3:00 p.m.	510-745-3331
Salt Lake City	425-227-1389	7:30 a.m.-4:00 p.m.	801-320-2500
Seattle	425-227-1389	7:30 a.m.-4:00 p.m.	253-351-3500
Washington	718-995-5426	8:00 a.m.-4:30 p.m.	703-771-3401

#### MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Atlanta	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Chicago	847-294-8400	8:00 a.m.-4:00 p.m.	847-608-5509
Dallas/Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m.-4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m.-3:30 p.m.	916-366-4001
Potomac	718-995-5426	8:00 a.m.-4:30 p.m.	540-349-7500
Southern CA	310-725-3300	7:30 a.m.-4:00 p.m.	858-537-5800

\*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

# **KEY AIR TRAFFIC FACILITIES** **DAILY NAS REPORTABLE AIRPORTS**

<b>AIRPORT NAME</b>	<b>*24 HR RGNL DUTY OFFICE TELEPHONE #</b>	<b>BUSINESS HOURS</b>	<b>BUSINESS TELEPHONE #</b>
Albuquerque Intl Sunport, NM	817-222-5006	8:00 a.m.-5:00 p.m.	505-842-4366
Andrews AFB, MD	718-995-5426	8:00 a.m.-4:30 p.m.	301-735-2380
Baltimore/Washington Intl Thurgood Marshall, MD	718-995-5426	8:00 a.m.-4:30 p.m.	410-962-3555
Boston Logan Intl, MA	781-238-7001	7:30 a.m.-4:00 p.m.	617-455-3100
Bradley Intl, CT	617-238-7001	7:30 a.m.-4:00 p.m.	203-627-3428
Burbank/Bob Hope, CA	310-725-3300	7:00 a.m.-5:30 p.m.	818-567-4806
Charlotte Douglas Intl, NC	404-305-5180	8:00 a.m.-4:30 p.m.	704-344-6487
Chicago Midway, IL	847-294-8400	8:00 a.m.-4:00 p.m.	773-884-3670
Chicago O'Hare Intl, IL	847-294-8400	8:00 a.m.-4:00 p.m.	773-601-7600
Cleveland Hopkins Intl, OH	847-294-8400	8:00 a.m.-4:00 p.m.	216-898-2020
Covington/Cincinnati, OH	708-294-7401	8:00 a.m.-4:30 p.m.	606-767-1006
Dallas/Ft. Worth Intl, TX	817-222-5006	8:30 a.m.-5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	847-294-8400	7:30 a.m.-4:00 p.m.	937-454-7300
Denver Intl, CO	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1600
Detroit Metro, MI	847-294-8400	8:00 a.m.-4:00 p.m.	734-955-5000
Fairbanks Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-474-0050
Fort Lauderdale Intl, FL	404-305-5180	7:00 a.m.-3:30 p.m.	305-356-7932
George Bush Intercontinental/Houston, TX	817-222-5006	7:30 a.m.-4:00 p.m.	713-230-8400
Hartsfield-Jackson Atlanta Intl, GA	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Honolulu Intl, HI	310-643-3200	7:30 a.m.-4:00 p.m.	808-840-6100
Houston Hobby, TX	817-222-5006	8:00 a.m.-5:00 p.m.	713-847-1400
Indianapolis Intl, IN	847-294-8400	8:00 a.m.-4:00 p.m.	317-484-6600
Kahului/Maui, HI	310-643-3200	7:30 a.m.-4:00 p.m.	808-877-0725
Kansas City Intl, MO	816-329-3000	7:30 a.m.-4:00 p.m.	816-329-2700
Las Vegas McCarran, NV	310-725-3300	7:30 a.m.-4:00 p.m.	702-262-5978
Los Angeles Intl, CA	310-725-3300	7:00 a.m.-3:30 p.m.	310-342-4900
Louis Armstrong New Orleans Intl, LA	817-222-5006	7:00 a.m.-4:30 p.m.	504-471-4300
Memphis Intl, TN	404-305-5180	7:30 a.m.-4:00 p.m.	901-322-3350
Miami Intl, FL	404-305-5180	7:00 a.m.-4:00 p.m.	305-869-5400
Minneapolis/St. Paul, MN	847-294-8400	8:00 a.m.-4:00p.m.	612-713-4000
Nashville Intl, TN	404-305-5180	7:00 a.m.-3:30 p.m.	615-781-5460
New York Kennedy Intl, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-656-0335
New York La Guardia, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-335-5461
Newark Liberty Intl, NJ	718-995-5426	8:00 a.m.-4:30 p.m.	973-645-3103
Norman Y. Mineta San Jose Intl, CA	310-643-3200	7:30 a.m.-4:00 p.m.	408-982-0750
Ontario Intl, CA	310-643-3200	7:30 a.m.-4:00 p.m.	909-983-7518
Orlando Intl, FL	404-305-5180	7:30 a.m.-5:00 p.m.	407-850-7000
Philadelphia Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	215-492-4100
Phoenix Sky Harbor Intl, AZ	310-643-3200	7:30 a.m.-4:00 p.m.	602-379-4226
Pittsburgh Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	412-269-9237
Portland Intl, OR	425-227-1389	7:30 a.m.-4:00 p.m.	503-493-7500
Raleigh-Durham, NC	404-305-5180	8:00 a.m.-4:30 p.m.	919-840-5544
Ronald Reagan Washington National, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-413-1535
Salt Lake City, UT	425-227-1389	7:30 a.m.-4:00 p.m.	801-325-9600
San Antonio Intl, TX	817-222-5006	8:00 a.m.-4:30 p.m.	210-805-5507
San Diego Lindbergh Intl, CA	310-725-3300	8:00 a.m.-4:30 p.m.	619-299-0677
San Francisco Intl, CA	310-643-3200	7:00 a.m.-3:30 p.m.	650-876-2883
San Juan Intl, PR	404-305-5180	7:30 a.m.-5:00 p.m.	809-253-8663
Seattle-Tacoma Intl, WA	425-227-1389	7:30 a.m.-4:00 p.m.	206-768-2900
St. Louis Lambert, MO	816-329-3000	7:30 a.m.-4:00 p.m.	314-890-1000
Tampa Intl, FL	404-305-5180	7:30 a.m.-4:00 p.m.	813-371-7700
Ted Stevens Anchorage Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-271-2700
Teterboro, NJ	718-995-5426	8:00 a.m.-4:30 p.m.	201-288-1889
Washington Dulles Intl, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-661-6031
West Palm Beach, FL	404-305-5180	8:00 a.m.-4:30 p.m.	561-683-1867
Westchester Co, NY	718-995-5426	8:00 a.m.-4:30 p.m.	914-948-6520

\*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

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**® ATLANTA CENTER**
**H-6-9-10-12, L-18-22-24-25-26-36, A-1**  
**(KZTL)**

Albemarle - 133.15  
 Anniston - 134.95  
 Athens - **127.5** 127.5 124.45 **120.425**  
 Atlanta A - 135.0  
 Augusta - 128.1  
 Birmingham - 134.05 **128.725**  
 Black Jack Mountain - 127.05  
 Chattanooga - **133.175** 132.05 **126.675** **124.875**  
 Columbus - **125.575** 120.45  
 Crossville - 133.6 **132.675** **125.925**  
 Foothills - **124.375**  
 Gadsden - 133.8  
 Glade Springs - 127.85  
 Greensboro - 128.8 **124.425**  
 Hampton - 128.0 **127.125** **126.475** **124.325**  
 Hickory - 134.55 **132.975** 125.15  
 Huntsville - **126.825**  
 Jonesville - **125.025** 119.575  
 Macon - 134.5 **126.425** 123.95 **119.575**  
 Millen - 135.55  
 Monroeville - 118.55  
 Montgomery - **134.6** **128.025** **125.875** 120.55  
 Mount Oglethorpe - 134.8 133.1 121.35  
 Newport - **134.075** 127.55  
 Owing - 135.35 **125.625** **123.725**  
 Statham - **132.475** 132.475  
 Sugarloaf Mountain - 132.625  
 Tri City - **126.775** **120.725**  
 Uniontown - 133.25 132.25

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**® HOUSTON CENTER - 134.35**
**H-6-7-8-9, L-17-18-19-20-21-22**  
**(KZHU)**

Arr-Dep US - 135.77 134.95 **133.75** 133.4 **132.65** 132.4 128.3 **127.8** 125.75 120.35  
 Mobile - 127.65 **125.775**

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**® INDIANAPOLIS CENTER - 133.425 132.775 128.375 125.55**
**H-5-9-10-12, L-16-25-26-27-29**  
**(KZID)**

124.525 119.55  
 Evansville - **132.525** 128.3  
 Livingston - **134.675** **126.925**  
 London 2 - 126.57 124.625 121.325  
 Lynch - 126.575  
 New Hope - 124.625 121.175  
 Portsmouth - 124.225 **120.275**  
 Tri City - **124.575**  
 Winchester - **128.22** 126.375 **123.775**

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**® JACKSONVILLE CENTER**
**H-6-7-8-9-12, L-18-21-22-24-25-35-36, A-1**  
**(KZJX)**

Arr-Dep US-South Atlantic Control N of 31°30' — 135.05 S of 31°30'N 134.85  
 Albany - 134.45 125.75  
 Alma - **135.975** **133.3** 132.3  
 Charleston - **135.05** **133.625** **132.475** 127.95 **124.075**  
 Columbia - **127.875** 124.7  
 Crestview - 134.15 **124.475** 120.2  
 Daytona Beach - 134.0  
 Dothan - 134.3  
 Eglin - 132.1  
 Florence - 134.35 133.45  
 Gainesville - **135.65** 134.4 124.75  
 Glynnco - 126.75  
 Jacksonville - **134.85** 126.35  
 Lake City - 125.375  
 Lowell - 135.75 133.325 **125.175**  
 Millen - 132.5  
 Myrtle Beach - **135.05** 128.7

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Panama City – 119.1  
 Perry Foley – 127.8  
 St. Augustine – 134.575 132.825 127.475 126.35  
 Savannah – 132.425 126.125 120.85  
 Tallahassee – 135.325 128.625 128.075 125.05  
 Valdosta – 133.7 125.95

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**® MEMPHIS CENTER — 127.975 124.025**
**H-5-6-9, L-15-16-17-18-22-25-26**  
**(KZME)**

Columbus – 134.775 133.125 127.1  
 Graham – 125.85 124.275  
 Huntsville – 120.8  
 McKellar – 134.65 127.975 126.45 124.35  
 Memphis – 135.225 118.625  
 Nashville – 133.85 124.125 118.875  
 Nashville/Joelton 132.1  
 Paducah – 133.65  
 Shelbyville – 126.75  
 South Fulton – 128.05  
 Tupelo – 135.9 135.9 134.4

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**® MIAMI CENTER**
**H-8, L-21-22-23-24, A-1**  
**(KZMA)**

Avon Park – 134.55 127.2 126.525  
 Fort Myers – 134.75 133.275  
 Grand Bahama Island – 134.2  
 Grand Turk – 135.2 132.3  
 Key West – 133.5 132.2 132.2 124.7 124.7  
 Melbourne – 135.075 128.65 124.1 119.825  
 Miami – 132.95 133.85 133.2 133.95 132.4 127.7 126.325 124.7 124.7  
 Nassau – 134.8 125.7  
 Pahokee – 133.55 132.45  
 Sarasota – 133.9 132.35 128.225  
 Vero Beach – 135.7 132.25 125.075  
 West Palm Beach – 135.175 133.4 132.15

**CENTER REMARKS:** All northbound IFR flights entering Miami in vicinity of Grand Turk and Great Inagua must contact Miami Center on 132.3/307.2 at least 10 minutes prior to the Miami Center boundary for an air traffic clearance. Alternate communications are avbl thru ARINC or Miami Radio. This is due to heavy air traffic congestion in this area.

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**® SAN JUAN CENTER**
**H-2-3, L-5-6**  
**(ZSU) (MJJS)**

Borinquen – 135.7 135.7 124.35  
 El Yunque – 134.3 134.3 128.65 128.6 125.0 125.0 118.75 118.75 118.15 118.15  
 Pico Del Este – 134.3 134.3 128.65 128.65 125.0 125.0 118.15 118.15

**CENTER REMARKS:** All acft on an IFR flight plan in the San Juan CTA and within 200 NM of San Juan are requested to ctc San Juan Center on the following frequencies: Amber 300 clockwise thru Amber 523—134.3; East of Amber 523 clockwise to North of Blue 520—125.0; Blue 520 clockwise thru Amber 636—118.15; Red 763 clockwise thru Green 431—135.7. San Juan Cerap provides IFR clearances for St Croix Christiansted on freq 121.7 when St Croix twr closed. San Juan Cerap provides IFR clearances for St Thomas Charlotte Amalie-Harry S Truman on freq 121.9 when twr closed. San Juan Cerap provides IFR clearances for Ponce-Mercedita on freq 121.9. San Juan Cerap provides IFR clearances for Mayaguez-Eugenio Maria De Hostos on freq 121.7.

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**® WASHINGTON CENTER**
**H-9-10-12, L-24-25-26-29-34-35-36**  
**(KZDC)**

Arr-Dep US – 135.5 133.82 133.12 132.55 128.52 127.7 127.42 124.02 123.85 118.82  
 Green Bay – 133.725 127.75  
 Johnsonville – 135.2 118.925  
 Manteo – 124.725  
 New Bern – 135.5 118.825  
 Rocky Mount – 118.475 132.225  
 Sampson – 135.3  
 Whaleyville – 133.825 128.525 127.425 123.85  
 Wilmington – 124.025

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VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. "T" indicates transmit only and "R" indicates receive only. RCO's available at NAVAIDS are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

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### ANDERSON AFSS

AIKEN RCO 122.45  
 ALLENDALE VOR 116.7T 122.1R  
 ANDERSON RCO 122.2 123.6  
 CHARLESTON VORTAC 113.5T 122.1R 122.2 122.5  
 CHESTERFIELD VOR/DME 108.2T 122.05R  
 COLLIER'S VORTAC 113.9T 122.1R  
 COLUMBIA VORTAC 114.7T 122.1R 122.65  
 FLORENCE VORTAC 115.2T 122.1R 122.6  
 FOOTHILLS VORTAC 113.4T 122.1R  
 FORT MILL VORTAC 112.4T 122.1R  
 GRAND STRAND VORTAC 117.6T 122.1R 123.6  
 GREENWOOD VORTAC 115.5T 122.1R 122.625  
 GREER RCO 122.2 122.65  
 HILTON HEAD ISLAND RCO 122.55  
 SPARTANBURG VORTAC 115.7T 122.1R  
 VANCE VORTAC 110.4T 122.1R

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### ANNISTON AFSS

ANNISTON RCO 122.2 123.6  
 BIRMINGHAM RCO 122.2 123.65  
 BROOKLEY VORTAC 112.8T 122.1R  
 CRIMSON VORTAC 117.8T 122.1R  
 DECATUR RCO 122.6  
 DOTHAN RCO 122.2 122.5  
 EUFAULA VORTAC 109.2T 122.1R  
 GADSDEN VOR/DME 112.3T 122.1R  
 HAMILTON RCO 122.3  
 HUNTSVILLE RCO 122.2  
 MOBILE RCO 122.2 123.65  
 MONROEVILLE VORTAC 116.8T 122.1R  
 MONTGOMERY VORTAC 112.1T 122.1R 122.2 122.55  
 MUSCLE SHOALS RCO 122.2 122.4  
 SELMA RCO 122.4  
 TALLADEGA VOR/DME 108.8T 122.05R  
 TUSCALOOSA RCO 122.2  
 TUSKEGEE VOR/DME 117.3T 122.1R  
 VULCAN VORTAC 114.4T 122.1R  
 WIREGRASS VORTAC 111.6T 122.1R

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### GAINESVILLE AFSS 122.1R 122.2 122.5 123.65

CRAIG VORTAC 114.5T 122.1R 122.2 122.45  
 CRESTVIEW RCO 122.0 122.2 122.45  
 CROSS CITY VORTAC 112.0T 122.1R  
 GATORS VORTAC 116.2T 122.1R  
 GREENVILLE VORTAC 109.0T 122.1R  
 LAKE CITY RCO 122.6  
 MARIANNA VORTAC 114.0T 122.1R  
 OCALA VORTAC 113.7T 122.1R  
 PALATKA RCO 122.25  
 PANAMA CITY VORTAC 114.3T 122.1R  
 PENSACOLA RCO 122.2 122.6  
 PERRY RCO 122.45  
 ST AUGUSTINE RCO 122.3  
 SAUFLEY VOR 108.8T 122.1R  
 SEMINOLE VORTAC 117.5T 122.1R 122.2 122.4  
 TAYLOR VORTAC 112.9T 122.1R

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**JACKSON AFSS**

CLARKSVILLE VOR/DME 110.6T 122.1R  
DYERSBURG RCO 122.2 122.45  
GRAHAM VORTAC 111.6T 122.1R 122.25  
JACKS CREEK VOR/DME 109.4T 122.1R  
JACKSON RCO 122.2 **122.65** 127.15  
MEMPHIS VORTAC 117.5T 122.1R 122.2 123.65

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**LOUISVILLE AFSS**

BOWLING GREEN RCO 122.2 122.4  
CENTRAL CITY VORTAC 109.8T 122.1R  
CINCINNATI VORTAC 117.3T 122.1R  
FALMOUTH VOR/DME 117.0T 122.1R  
FRANKFORT VOR 109.4T 122.1R  
HAZARD VOR/DME 111.2T 122.1R  
LEXINGTON VORTAC 112.6T 122.1R  
LONDON VORTAC 116.1T 122.1R 122.2 122.65  
LOUISVILLE RCO 122.1R 122.2 **122.45**  
MADISON RCO 122.3  
NEW HOPE VOR/DME 110.8T 122.1R  
NEWCOMBE VORTAC 110.4T 122.1R  
OWENSBORO VOR/DME 108.6T 122.1R  
PADUCAH RCO 122.2 122.5  
PIKEVILLE RCO 122.05  
SOMERSET RCO 122.55  
YORK VORTAC 112.8T 122.1R

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**MACON AFSS**

ALBANY RCO 122.6  
 ALMA VORTAC 115.1T 122.1R 123.6  
 ATHENS VORTAC 109.6T 122.1R  
 ATLANTA VORTAC 116.9T 122.1R 122.2 122.6  
 BRUNSWICK VORTAC 109.8T 122.1R 122.2  
 CHOO CHOO VORTAC 115.8T 122.1R  
 COLUMBUS VORTAC 117.1T 122.1R 122.65  
 DANIEL RCO 122.3  
 DUBLIN VORTAC 113.1T 122.1R 122.6  
 GAINESVILLE RCO 122.55  
 HARRIS RCO 122.35  
 LAGRANGE VORTAC 115.6T 122.1R  
 MACON RCO 122.0 122.1R 122.2 122.4  
 MOULTRIE VOR/DME 108.8T 122.1R  
 PEACHTREE VOR/DME 116.6T 122.1R  
 ROME RCO 122.3  
 SAVANNAH VORTAC 115.95T 122.1R 123.65  
 STATESBORO RCO 122.6  
 THOMASVILLE RCO 122.55  
 TIFT MYERS RCO 122.35  
 VALDOSTA VOR/DME 114.8T 122.1R 122.2  
 VIENNA VORTAC 116.5T 122.1R  
 WAYCROSS VORTAC 110.2T 122.1R

**MIAMI AFSS** 122.2 122.3 **122.55** 123.65**MIAMI IFSS** 127.9 126.9 126.7

DADE COLLIER RCO 122.3  
 DAVIE RCO 126.7  
 DOLPHIN VORTAC 113.9T 122.1R  
 FORT MYERS RCO 122.1R 122.2 **122.65**  
 FORT PIERCE RCO 122.55  
 KEY WEST VORTAC 113.5T 122.1R 122.2 **123.65**  
 LA BELLE VORTAC 110.4T 122.1R  
 MARATHON RCO 122.6  
 NAPLES RCO 123.6  
 PAHOKEE VORTAC 115.4T 122.1R 122.35  
 PALM BEACH VORTAC 115.7T 122.1R 122.4  
 VIRGINIA KEY VOR/DME 117.1T 122.1R

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**NASHVILLE AFSS**

BRISTOL RCO 122.2  
CHATTANOOGA RCO 122.2 123.65  
CROSSVILLE RCO 122.2 122.5  
HINCH MOUNTAIN VORTAC 117.6T 122.1R  
HOLSTON MOUNTAIN VORTAC 114.6T 122.1R  
LIVINGSTON VORTAC 108.4T 122.1R  
MCGHEE TYSON RCO 122.2 122.3  
NASHVILLE RCO 122.1R 122.2 122.55  
SHELBYVILLE VOR/DME 109.0T 122.1R  
VOLUNTEER VORTAC 116.4T 122.1R

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**RALEIGH AFSS**

BARRETTS MOUNTAIN VOR/DME 110.8T 122.1R  
CHARLOTTE RCO 122.4  
COFIELD VORTAC 114.6T 122.1R  
ELIZABETH CITY VOR/DME 112.5T 122.05R 122.2  
FAYETTEVILLE VOR/DME 108.8T 122.1R  
GREENSBORO VORTAC 116.2T 122.1R 122.2 123.65  
HATTERAS RCO 122.3  
HICKORY RCO 122.2 122.6  
KINSTON VORTAC 109.6T 122.15R  
LIBERTY VORTAC 113.0T 122.1R  
NEW BERN VOR/DME 113.6T 122.1R 122.2 122.4  
PITT-GREENVILLE RCO 122.35  
RALEIGH RCO 122.2 122.45 122.65  
ROCKY MOUNT RCO 122.2 122.3  
SANDHILLS VORTAC 111.8T 122.1R  
SNOWBIRD VORTAC 108.8T 122.1R  
SUGARLOAF MOUNTAIN VORTAC 112.2T 122.1R 122.2 122.3  
TAR RIVER VORTAC 117.8T 122.1R  
WILKESBORO RCO 122.4  
WILMINGTON VORTAC 117.0T 122.1R 122.55

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**SAINT PETERSBURG AFSS**

BROOKSVILLE RCO 122.3  
FORT DRUM RCO 122.2  
LAKELAND VORTAC 116.0T 122.1R  
MELBOURNE VOR/DME 110.0T 122.1R 122.6  
ORLANDO VORTAC 112.2T 122.1R 122.2 **122.65** 123.65  
ORMOND BEACH VORTAC 112.6T 122.1R 122.4  
PUNTA GORDA RCO 122.025  
ST PETERSBURG VORTAC 116.4T 122.1R 122.2 122.45 123.6  
SARASOTA VORTAC 115.2T 122.1R  
SEBRING RCO 122.25  
TITUSVILLE RCO 123.6  
VERO BEACH VORTAC 117.3T 122.1R 122.2 122.5

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**SAN JUAN AIFSS**

BORINQUEN VORTAC 113.5T 122.1R  
MAYAGUEZ VOR/DME 110.6T 122.1R  
PONCE VOR/DME 109.0T 122.1R  
ST CROIX VOR/DME 108.2T 122.1R  
ST THOMAS VOR/DME 108.6T 123.6R  
SAN JUAN RCO 126.7 123.65 122.2

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**FLIGHT STANDARDS DISTRICT OFFICES (FSDO)**

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manager, Flight Standards District Office—Federal Aviation Administration.

**ALABAMA**

Liberty Park Building 1500, Suite 250  
1500 Urban Center Drive  
Vestavia Hills, AL 35242  
Telephone: 205-731-1557

**FLORIDA**

Ft. Lauderdale Jet Center  
1050 Lee Wagener Blvd.  
Ft. Lauderdale, FL 33315  
Telephone: 954-635-1300

5950 Hazeltine  
National Drive Suite 500  
Orlando, FL 32822-5023  
Telephone: 407-812-7700  
Fax: 407-812-7710

8600 NW 36th Street  
Miami, FL 33166  
Telephone: 305-716-3400

5601 Mariner St, Suite 310  
Tampa, FL 33609  
Telephone: 813-287-4900  
Fax: 813-639-1551

**GEORGIA**

Campus Building  
1701 Columbia Ave. Suite 2-110  
College Park, GA 30337-2748  
Telephone: 404-305-7200  
Fax: 404-305-7215

**KENTUCKY**

1930 Bishop Lane  
Waterson Towers, 11th Floor  
Louisville, KY 40218  
Telephone: 502-753-4200

**NORTH CAROLINA**

6433 Bryan Blvd.  
Greensboro, NC 27409  
Telephone: 336-662-1000

3800 Arco Corporate Drive, Suite 233  
Charlotte, NC 28273  
Telephone: 704-319-7020

**PUERTO RICO**

525 F.D. Roosevelt Ave.  
La Torre de Plaza, Suite 901  
San Juan, PR 00918  
Telephone: 787-764-2538

**SOUTH CAROLINA**

125-B Summer Lake Drive  
West Columbia, SC 29170  
Telephone: 803-765-5931

**TENNESSEE**

2 International Plaza Drive, Suite 700  
Nashville, TN 37217  
Telephone: 615-324-1300

2842 Business Park Drive, Bldg G  
Memphis, TN 38118  
Telephone: 901-322-8600

# PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
5. Where more than one route is listed the routes have equal priority for use.
6. Official location identifiers are used in the route description for VOR/VORTAC nav aids.
7. Intersection names are spelled out.
8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW081); or an intersection (e.g., GSW081 FITCH).
9. Where two nav aids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
11. (90–170 incl) altitude flight level assignment in hundred of feet.
12. The notations “pressurized” and “unpressurized” for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.  
Sun..... 1300–2259 local time.  
Mon thru Fri ..... 0701–2259 local time.  
Sat ..... 0701–1459 local time.
14. Use current SIDs and STARs for flight planning.
15. For high altitude routes, the portion of the routes contained in brackets is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

## LOW ALTITUDE

Terminals	Route	Effective Times (UTC)
<b>ATLANTA METRO AREA</b>		
Chicago Midway (MDW) .....	(60–170 incl) V97 NELLO V311 HCH V51 CGT .....	1200–0300
Chicago O’Hare (ORD).....	(60–170 incl) V97 NELLO V311 HCH V51 CGT V7 BEBEE .....	1200–0300
Cincinnati (CVG).....	(80–170 incl) V97 VVX V115 AZQ V339 FLM .....	1200–0300
<b>CINCINNATI METRO AREA (CVG, LUK)</b>		
Detroit/Wayne (DTW) .....	DQN MIZAR–STAR .....	1100–0300
	or (RNAV only) HAGOL (RNAV)–DP DQN MIZAR–STAR .....	1100–0300
Detroit Satellites:		
Ann Arbor (ARB) .....	DQN CRUXX–STAR .....	1100–0300
	or (RNAV only) HAGOL (RNAV)–DP DQN CRUXX–STAR .....	1100–0300
Pontiac (PTK),	or (RNAV only) HAGOL (RNAV)–DP DQN CRUXX–STAR .....	

Terminals	Route	Effective Times (UTC)
Willow Run (YIP) .....	(all others) DQN CRUX-STAR .....	
	or	
	(RNAV only) HAGOL (RNAV)-DP DQN	
	CRUX-STAR .....	
Windsor (CYQG),	or	
	(all others) (RNAV only) HAGOL (RNAV)-DP DQN	
	V272 KLINE VXV VXV064 LYNTN .....	
Young (DET) .....	V275 KLINE VVW VVW064 LYNTN .....	
	or	
	(RNAV only) HAGOL (RNAV)-DP DQN V275 KLINE	
	VXV VXV 064 LYNTN .....	
From COVINGTON (CVG) only		
Atlanta (ATL) .....	BLUEGRASS-DP HYK V97 VXV V267 HRS V463	
	WOMAC .....	1100-0300
Chicago Midway (MDW) .....	V128 VHP BVT V97 CGT .....	1100-0300
Chicago O'Hare (ORD) .....	V128 VHP BVT V97 CGT V7 BEBEE .....	1100-0300
Indianapolis (IND) .....	V128 VHP .....	1100-0300
Knoxville (TYS) .....	(all others) BLUEGRASS-DP HYK V97 .....	
	or	
	(RNAV only) KENLIN (RNAV)-DP HYK V97 .....	
Louisville (SDF) .....	CVG206 IIU055 IIU .....	1100-0300
Pittsburgh (PIT) .....	(60-170 incl) (all others) RHOMM-DP YRK V44	
	JPU V117 WISKE WISKE-STAR .....	1100-0300
	or	
	(60-170) (RNAV only) GIPLE (RNAV)-DP YRK V44	
	JPU V117 WISKE WISKE-STAR .....	1100-0300
<b>DAYTONA BEACH</b>		
Miami (MIA) .....	(110 and below) V3 MLB V437 PHK V267 BRIKL..	1300-0300
<b>FT LAUDERDALE METRO AREA (FLL, FXE, PMP)</b>		
Cross City (CTY) .....	(at or below 50) DHP V97 LBV V157 LAL V7 .....	1030-0300
	or	
	(60-170) V511 LAL V7 .....	1030-0300
Daytona Beach (DAB) .....	(at or below 100) PBI V3 SMYRA .....	1030-0300
	or	
	(110-170) V159 TBIRD MLB V3 .....	1030-0300
Ft. Myers (FMY)(RSW) .....	(at or below 50) DHP V521 .....	1030-0300
Ft. Pierce (FPR) .....	(at or below 100) V3 .....	1030-0300
	or	
	(110-170) V159 TBIRD .....	1030-0300
Gainesville (GNV) .....	(at or below 50) DHP V97 LBV V157 .....	1030-0300
	or	
	(60-170) V511 LAL V157 .....	1030-0300
Jacksonville (JAX) .....	(at or below 90) PBI V3 OMN V51 CRG .....	1030-0300
	or	
	(130-170) ORL V267 CRG .....	1030-0300
	or	
	V159 VRB V3 OMN V51 CRG .....	
Lakeland (LAL) .....	(at or below 50) DHP V97 LBV110 V157 .....	1030-0300
	or	
	(60-170) V511 .....	1030-0300
Melbourne (MLB) .....	(at or below 100) V3 .....	1030-0300
	or	
	(110-170) FLL V159 TBIRD .....	1030-0300
Ocala (OCF) .....	(at or below 50) DHP V97 LBV V157 .....	1030-0300
	or	
	(60-170) V511 LAL V157 .....	1030-0300
Orlando (MCO) .....	(at or below 100) PBI V531 ORL .....	1030-0300
	or	
	(110-170) V159 TBIRD V531 ORL .....	1030-0300



Terminals	Route	Effective Times (UTC)
Sarasota/Bradenton (SRQ) .....	(60–170) LBV V97 ROGAN .....	1030–0300
	or	
	(60–170) SRQ .....	1030–3000
	or	
	(at or below 50) DHP V97 ROGAN .....	1030–0300
	or	
	(60–170) ROGAN .....	1030–0300
Tallahassee (TLH) .....	(at or below 50) DHP V97 LBV V157 LAL V7 SZW .	1030–0300
	or	
	(60–170) V511 LAL V7 SZW .....	1030–0300
Tampa (TPA) .....	(60–170) LBV BRDGE–STAR .....	1030–0300
	or	
	(60–170) BRDGE BRDGE–STAR .....	1030–0300
	or	
	(at or below 50) DHP V97 PIE .....	1030–0300
	or	
	(60–170, GPS or DME/DME–IRU equipped) DEAKK DEAKK (RNAV)–STAR .....	1030–0300
	or	
	(60–170, GPS or DME/DME–IRU equipped) LBV DEAKK (RNAV)–STAR .....	1030–0300
Vero Beach (VRB) .....	(at or below 100) V3 .....	1030–0300
	or	
	(110–170) V159 TBIRD .....	1030–0300
<b>FORT MYERS METRO AREA (RSW, FMY, APF, MKY, PGD)</b>		
Daytona Beach (DAB) .....	ORL .....	1030–0300
Ft. Lauderdale (FLL) .....	(RSW/FMY/PGD–prop/turbo) RSW V599 .....	1030–0300
	or	
	(RSW/FMY/PGD–turbo/jets) FORTL JINGL (RNAV)–STAR .....	1030–0300
	or	
	(APF/MKY prop/turbo) DRCT .....	1030–0300
	or	
	FORTL JINGL (RNAV)– STAR .....	1030–0300
Ft. Pierce (FPR) .....	V225 .....	1030–0300
Gainesville (GNV) .....	V7 LAL V157 .....	1030–0300
Jacksonville (JAX) .....	ORL V267 CRG .....	1030–0300
Lakeland (LAL) .....	V7 LAL .....	1030–0300
Melbourne (MLB) .....	V225 VRB .....	1030–0300
Miami (MIA) .....	V35 CURVE .....	1030–0300
	or	
	(all others) CYY CYY–STAR .....	1030–0300
	or	
	(Turbojets–GPS or DME/DME–IRU equipped) CYY SSCOT (RNAV)–STAR .....	
Orlando (MCO) .....	(Jets) LAL ORL .....	1030–0300
	or	
	(Turbo/Props) ORL .....	1030–0300
	or	
	(Jets) LAL MINEE–STAR .....	1030–0300
	or	
	(Jets) DOWNN MINEE–STAR .....	1030–0300
	or	
	(Turbo/Props) DOWNN MINEE–STAR .....	1030–0300
Ocala (OCF) .....	V7 LAL V157 .....	1030–0300
Tallahassee (TLH) .....	V7 SZW .....	1030–0300
Tampa (TPA) .....	(at or below 100) V35 PIE .....	1030–0300
	or	
	(110–170) RSW BRDGE–STAR .....	1030–0300
	or	
	(GPS or DME/DME–IRU equipped) DEAKK (RNAV)–STAR .....	1030–0300
Vero Beach (VRB) .....	V225 .....	1030–0300

Terminals	Route	Effective Times (UTC)
<b>GAINESVILLE (GNV)</b>		
Ft. Lauderdale (FLL) .....	(100 and below) V157 NEWER .....	0000-2359
Ft. Myers (FMY) .....	(100 and below) V157 LAL V521 .....	0000-2359
Miami (MIA) .....	(100 and below) V157 LBV V529 V35 CURVE .....	0000-2359
Orlando (ORL) .....	(100 and below) V157 OCF V159 .....	1100-0400
Sarasota/Bradenton (SRQ) .....	(100 and below) V157 LAL .....	0000-2359
Tampa (TPA) .....	(100 and below) V157 OCF V581 DADES .....	0000-2359
<b>JACKSONVILLE METRO AREA (JAX)</b>		
Miami (MIA) .....	(100 and below) V3 MLB V437 PHK V267 BRIKL..	1300-0300
Tampa (TPA) .....	(100 and below) OCF V581 DADES .....	0000-2359
	or	
	(100 and below, GPS or DME/DME-IRU equipped) OCF V581 DADES (RNAV)-STAR .....	0000-2359
<b>KEY WEST METRO AREA (NQX)</b>		
Daytona Beach (DAB) .....	RSW ORL .....	1030-0300
Ft Myers (RSW) .....	EYW .....	1030-0300
Fort Lauderdale (FLL) .....	(props) EYW V157 DHP .....	
	or	
	(jets-all others) EYW DVALL-STAR .....	1030-0300
	or	
	(jets-/E./G./R./J./L./Q) EYW CORSO (RNAV)-STAR .....	1030-0300
Melbourne (MLB) .....	EYW PHK .....	1030-0300
Miami (MIA) .....	(props) EYW V157 .....	
	or	
	(Jets-all others) EYW DVALL-STAR .....	1030-0300
	or	
	(Jets-/E./G./R./J./L./Q) EYW CORSO (RNAV)-STAR .....	1030-0300
Orlando (MCO) .....	(props) EYW RSW MINEE-STAR .....	
	or	
	(Jets) EYW RSW MINEE-STAR .....	1030-0300
Palm Beach (PBI) .....	EYW PHK .....	1030-0300
Sarasota/Bradenton (SRQ) .....	(at or below 100) EYW RSW V35 MURDO .....	1030-0300
	or	
	(110-170) EYW RSW V7 ROGAN .....	
Tallahassee (TLH) .....	EYW RSW V7 SZW .....	1030-0300
Tampa (TPA) .....	(at or below 100) EYW RSW V35 PIE .....	
	or	
	(110-170) EYW RSW V7 BRDGE-STAR .....	1030-0300
	or	
	(110-170, GPS or DME/DME-IRU equipped) EYW V225	
	RSW V7 ROGAN DEAKK (RNAV)-STAR .....	1030-0300
Vero Beach (VRB) .....	EYW PHK V51 .....	1030-0300
<b>LAKELAND METRO AREA (LAL, GIF, BOW, BKV, X16)</b>		
Ft Lauderdale (FLL) .....	(Jets only-all others) V7 RSW FORTL-STAR .....	1030-0300
Ft. Myers (FMY) .....	V521 .....	1030-0300
Ft Pierce (FPR) .....	(at or below 140) V441 DEARY V159 .....	1030-0300
	or	
	(150-170) VRB .....	1030-0300
Key West (EYW) .....	V7 RSW V225 .....	1030-0300
Miami (MIA) .....	(100 and below) V157 LBV V529 V35 CURVE .....	
	or	
	(all others) CYY CYY-STAR .....	1030-0300
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) CYY SSCOT (RNAV)-STAR .....	
Opa Locka (OPF) .....	(props/turbo) V511 NEWER .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) RSW CYY SSCOT (RNAV)-STAR .....	
Vero Beach (VRB) .....	(at or below 140) V441 DEARY V159 .....	1030-0300
	or	
	(150-170) VRB .....	1030-0300
West Palm Beach (PBI) .....	PHK .....	1030-0300

Terminals	Route	Effective Times (UTC)
<b>LEXINGTON (LEX)</b>		
Atlanta (ATL) .....	HYK V53 AZQ SOT WHINZ-STAR .....	
<b>LOUISVILLE</b>		
Kansas City (MKC) .....	V4 PXV V190 SGF TYGER-STAR .....	0000-2359
Wichita (ICT) .....	V4 PXV V190 SGF V132 CNU V350 .....	0000-2359
<b>MEMPHIS</b>		
Chicago Midway (MDW) .....	SPI MOTIF-STAR .....	0000-2359
Chicago O'Hare (ORD) .....	MAW V313 PNT V227 PLANO .....	1100-0300
	or	
	PNT V227 PLANO .....	0000-2359
<b>MIAMI METRO AREA (MIA, HWO, OPF, TMB, HST, X51)</b>		
Cross City (CTY) .....	V97 LBV V157 LAL V7 .....	1030-0300
	or	
	LAL .....	1030-0300
Daytona Beach (DAB) .....	(at or below 100) PBI V3 SMYRA .....	1030-0300
	or	
	(110-170) V437 MLB V3 .....	1030-0300
Ft Pierce (FPR) .....	(at or below 100) PBI V3 .....	1030-0300
	or	
	(110-170) V267 PHK V51 VRB .....	1030-0300
	or	
	FPR .....	
Gainesville (GNV) .....	V97 LBV V157 .....	1030-0300
	or	
	LAL .....	1030-0300
Jacksonville (JAX) .....	(at or below 90) PBI V3 OMN V51 CRG .....	1030-0300
	or	
	(at 110) PHK V437 MLB V3 OMN V51 CRG .....	1030-0300
	or	
	(130-170) V267 CRG .....	1030-0300
Lakeland (LAL) .....	V97 LBV V157 LAL .....	1030-0300
	or	
	LAL .....	1030-0300
Melbourne (MLB) .....	(at or below 100) V3 .....	1030-0300
	or	
	(120-170) PBI V531 TBI RD .....	1030-0300
New Orleans (MSY) .....	(below FL180) LBV SRQ AM .....	1100-0300
Ocala (OCF) .....	DHP V97 LBV V157 .....	1030-0300
	or	
	LAL .....	1030-0300
Orlando (MCO) .....	(at or below 100) PBI V531 ORL .....	
	or	
	(110-170) V267 PHK GOOFY-STAR .....	1030-0300
Overwater Routes to the Northeast .....	PERMT ILM or PERMT DIW .....	
Sarasota/Bradenton (SRQ) .....	V97 ROGAN .....	1030-0300
Tallahassee (TLH) .....	DHP V97 LBV V157 LAL V7 SZW .....	1030-0300
Tampa (TPA) .....	V97 LBV BRDGE-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) V97 LBV	
	DEAKK .....	1030-0300
Vero Beach (VRB) .....	(at or below 100) PBI V3 .....	1030-0300
	or	
	(110-170) V267 PHK V51 .....	1030-0300
	or	
	(110-170) VRB .....	1030-0300
<b>NASHVILLE</b>		
Tallahassee (TLH) .....	RQZ TDG TGE RRS .....	1100-2300
<b>ORLANDO METRO AREA (MCO, ORL, ISM, LEE, SFB)</b>		
Ft Lauderdale (FLL) .....	(at or below 100) PHK V267 BRIKL .....	1030-0300
	or	
	(110-170) PHK V267 BRIKL .....	1030-0300
Ft Pierce (FPR) .....	V159 VRB .....	1030-0300
Key West (EYW) .....	RSW V225 .....	1030-0300
Miami (MIA) .....	(at or below 100) PHK V267 BRIKL .....	1030-0300

Terminals	Route	Effective Times (UTC)
West Palm Beach (PBI) .....	(props/turbo props) V159 VRB V295 ST00P V492 .....	1030-0300
	or	
	(Jets only) PHK .....	1030-0300
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) DEARY VRB FRWAY (RNAV)-STAR .....	
<b>PALM BEACH METRO AREA (PBI, BCT, LNA, UTX, SUA)</b>		
Cross City (CTY) .....	(at or below 140) V531 BAIRN OCF V159 .....	
	or	
	(150-170) LAL V7 .....	1030-0300
Daytona Beach (DAB) .....	V3 SMYRA .....	1030-0300
	or	
	V531 TBIRD MLB V3 SMYRA .....	1030-0300
Ft. Myers (RSW) .....	RSW .....	1030-0300
Jacksonville (JAX) .....	(at or below 110) V3 VRB V51 CRG .....	
	or	
	(130-170) ORL V267 CRG .....	1030-0300
Lakeland (LAL) .....	LBV V157 .....	1030-0300
	or	
	(SUA Dep) LAL .....	
Melbourne (MLB) .....	(at or below 100) V3 .....	
	or	
	(120-170) PBI V531 TBIRD .....	1030-0300
Ocala (OCF) .....	(at or below 140) V531 BAIRN OCF .....	
	or	
	(150-170) LAL OCF .....	
Orlando (ORL/MCO) .....	V531 BAIRN GOOFY-STAR .....	1030-0300
Overwater Routes to the Northeast .....	A699 STIFF AR7 .....	
Sarasota/Bradenton (SRQ) .....	LBV V97 ROGAN .....	
	or	
	(SUA Dep) SRQ .....	
Tallahassee (TLH) .....	(at or below 140) V531 BAIRN OCF V159 CTY V7 SZW .....	
	or	
	(150-170) LAL V7 SZW .....	1030-0300
Tampa (TPA) .....	LBV BRDGE-STAR .....	
	or	
	BRDGE BRDGE-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) LBV DEAKK (RNAV)-STAR .....	1000-0300
Vero Beach (VRB) .....	(at or below 100) PBI V3 .....	
	or	
	(110-170) V531 TBIRD .....	1030-0300
From STUART (SUA) only:		
Cross City (CTY) .....	(at or below 120) BAIRN OCF V159 .....	
	or	
	(130-170) LAL V7 .....	1030-0300
Lakeland (LAL) .....	TBIRD V531 ODDEL V441 LAL .....	1030-0300
Ocala (OCF) .....	TBIRD V531 BAIRN .....	1030-0300
Tallahassee (TLH) .....	(at or below 120) BAIRN OCF V159 CTY V7 SZW ..	
	or	
	(130-170) LAL V7 SZW .....	1030-0300

Terminals	Route	Effective Times (UTC)
<b>SARASOTA/BRADENTON AREA (SRQ)</b>		
Ft Lauderdale (FLL) .....	(at or below 100, below 210 kts) RSW V599 NEWER .....	
	or	
	(110–170), below 210 kts) LBV V157 NEWER .....	
	or	
	(at or above 210 kts) V579 RSW V7 KUBIC .....	
	or	
	(all others) RSW FORTL–STAR .....	1030–0300
	or	
	(/E, /G, /R, /J, /L, /Q) RSW SWAGS (RNAV)–STAR .....	
Ft Myers (RSW) .....	V579 RSW .....	1030–0300
Orlando (MCO) .....	LAL MINEE–STAR .....	1030–0300
West Palm Beach (PBI) .....	SABEE JOOOE WLACE (RNAV)–STAR .....	
<b>TALLAHASSEE AND CROSS CITY AREA</b>		
Ft Myers (FMY) .....	(120 and below) CTY V7 LAL V521 .....	1100–0300
Miami (MIA) .....	(170 and below) LAL V157 LBV V529 V35 CURVE .....	1300–0300
<b>TAMPA/ST PETERSBURG METRO AREA (TPA, SPG, PIE, TPF)</b>		
Ft Lauderdale (FLL) .....	(Jets only) RSW V7 KUBIC FLL .....	
	or	
	(all others) RSW FORTL–STAR .....	
	or	
	(Turboprop–all others) RSW FORTL–STAR .....	1030–0300
	or	
	(props only) V509 HALLR V511 NEWER .....	1030–0300
	or	
	(GPS or DME/DME–IRU equipped) SABEE RXXAN JINGL (RNAV)–STAR .....	
Ft Myers (RSW) .....	PIE V579 RSW .....	
	or	
	(Turbojets–GPS or DME/DME–IRU equipped) SRQ TYNEE (RNAV)–STAR .....	
Ft Pierce (FPR) .....	(at or below 140) V441 DEARY V159 .....	
	or	
	(150–170) VRB .....	1030–0300
Key West (EYW) .....	PIE V35 RSW V225 .....	
	or	
	V579 RSW V225 .....	1030–0300
Miami (MIA) .....	RSW V35 CURVE .....	1030–0300
	or	
	(all others) CYY CYY–STAR .....	1030–0300
	or	
	(Turbojets–GPS or DME/DME–IRU equipped) CYY SSCOT (RNAV)–STAR .....	
Opa Locka (OPF) .....	(props) V509 HALLR V511 NEWER .....	
	or	
	(turbo) RSW V7 KUBIC .....	
	or	
	(turbo) V509 HALLR V511 NEWER .....	1030–0300
	or	
	(jets) RSW CYY CYY–STAR .....	1030–0300
	or	
	(Turbojets–GPS or DME/DME–IRU equipped) RSW CYY SSCOT (RNAV)–STAR .....	
Orlando (MCO) .....	LAL MINEE–STAR (Max alt. 12,000 ft) .....	1030–0300
Vero Beach (VRB) .....	(at or below 140) V441 DEARY V159 .....	
	or	
	(150–170) VRB .....	1030–0300
West Palm Beach (PBI) .....	RSW PHK .....	
	or	
	(Turbojets–GPS or DME/DME–IRU equipped) SABEE JOOOE WLACE (RNAV)–STAR .....	

## PREFERRED IFR ROUTES

### SPECIAL LOW ALTITUDE ARRIVAL ROUTES FOR ATLANTA TERMINAL AREA (JETS AND TURBOPROPS)

**NORTHEAST**

Traffic entering ZTL airspace V97 and East to V66 file:

.....	VXV AWSON-STAR.....
.....	SOT ODF AWSON-STAR.....
.....	SUG ODF AWSON-STAR.....
.....	SPA ODF AWSON-STAR.....
.....	ELW ODF AWSON-STAR.....

**SOUTHEAST**

Traffic entering ZTL airspace South of V66 to East of a line from ATL to MGR file:

.....	IRQ TRBOW-STAR.....
.....	DBN TRBOW-STAR.....
.....	MCN TRBOW-STAR.....

**SOUTHWEST**

Traffic entering ZTL airspace South of V278 to West of a line from ATL to MGR file:

.....	LDK V66 LGC MIKEE-STAR.....
.....	MEI V56 MGM LGC MIKEE-STAR.....
.....	MVC MGM LGC MIKEE-STAR.....
.....	CEW MGM LGC MIKEE-STAR.....
.....	SZW PZD CSG LGC MIKEE-STAR.....

**NORTHWEST**

Traffic entering ZTL airspace on V278 and North to West of V97 file:

.....	IGB V278 VUZ V417 MAYES V325 DALAS.....
.....	HAB V159 VUZ V417 MAYES V325 DALAS.....
.....	MSL V325 DALAS.....
.....	DCU V541 GAD V325 DALAS.....
.....	RQZ BUNNI-STAR.....
.....	BNA V5 GQO BUNNI-STAR.....
.....	SYI V67 GQO BUNNI-STAR.....
.....	BWG V243 GQO BUNNI-STAR.....
.....	LVT V51 HCH V333 GQO BUNNI-STAR.....
.....	HYK V333 GQO BUNNI-STAR.....

### SPECIAL LOW ALTITUDE DIRECTIONAL ROUTES

	Route	Effective Times (UTC)
Low Altitude IFR routes for traffic overflying the Charlotte Metro Area:		
.....	PSK V37 CAE (90 and 100 only) .....	1100-0300
.....	SPA V54 LOCAS (90 and 100 only).....	1100-0300
.....	GRD V66 SDZ (30-100 only) .....	1100-0300

### HIGH ALTITUDE

Terminals	Route	Effective Times (UTC)
<b>ATLANTA (ATL)</b>		
Austin (AUS) .....	WEONE J239 MEI AEX LFK.....	1100-0300
Baltimore (BWI).....	EAONE SPA J14 RIC OTT-STAR .....	1100-0300
Boca Raton (BCT).....	(GPS or DME/DME-IRU equipped) BRAVS (RNAV)-DP WALET OTK PRRIE (RNAV)-STAR .....	1100-0300
Boston (BOS).....	EATWO GRD J209 RDU J207 FKN J79 JFK ORW-STAR.....	1100-0300
Chicago Midway (MDW) .....	(/E/G/R/S/L/Q only) NOONE J89 IIU OKK FISSK (RNAV)-STAR.....	1100-0300
	or (Non-Advanced RNAV only) NOONE J89 IIU OKK V285 CLEFT OXI CGT .....	1100-0300

Terminals	Route	Effective Times (UTC)
Chicago O'Hare (ORD) .....	(non-Advanced RNAV only) CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR.....	1100-0300
	or	
	(/E/G/R/J/L/Q only) CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	1100-0300
	or	
Cincinnati (CVG) .....	J89 IIU MZZ OXI .....	
Charlotte (CLT) .....	NOTWO J43 VXV HARDU-STAR.....	1100-0300
Cleveland (CLE) .....	GRD ADENA (RNAV-STAR) .....	1100-0300
	SUMMT (RNAV)-DP VXV J91 BULEY J91 HNN TVT KEATN-STAR .....	
Columbus (CMH) .....	NOTWO J43 VXV J91 HNN BREMN-STAR .....	1100-0300
Denver (DEN) .....	WETWO VUZ J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR .....	1100-0300
Detroit/Wayne (DTW) .....	SUMMT (RNAV)-DP VXV J91 HNN WEEDA-STAR ...	
Eglin AFB (KVPS) .....	NOVSS (RNAV) DP SARGE RRS CEW .....	
Fort Lauderdale (FLL) .....	SOONE J89 HITR PIE FORTL-STAR .....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) BRAVS (RNAV)-DP WALET OTK JINGL (RNAV)-STAR.....	1100-0300
Fort Myers (FMY and RSW) .....	(Turbojets-GPS or DME/DME-IRU equipped) THRSR (RNAV)-DP LUCKK SZW TYNEE (RNAV)-STAR.....	1100-0300
Gainesville (GNV) .....	SOONE J89 OTK.....	1100-0300
Houston (HOU) .....	(DME/DME-IRU or GPS-equipped) JAMMR AEX ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) JAMMR MEI AEX DAS-STAR.....	
Houston (IAH) .....	(Turbojets-DME/DME-IRU or GPS-equipped) JAMMR AEX TXMEX (RNAV)-STAR .....	
Kennedy (JFK) .....	EATWO GRD J209 ORF J121 SIE CAMRN-STAR ....	1100-0300
La Guardia (LGA) .....	EAONE AHN J208 HPW J191 PXT KORRY-STAR....	1100-0300
Louisville (SDF) .....	NOONE HCH DARBY-STAR.....	1100-0300
Marco Island (MKY) .....	SOTWO J43 SZW PIKKR (RNAV)-STAR.....	
	or	
Miami (MIA) .....	SOONE J89 J75 TEPEE ZEILR-STAR.....	
	(all others) SOTWO SZW J43 PIE CYY-STAR.....	1100-0300
	or	
	(Turbojets-GPS or DME/DME equipped) THRSR (RNAV)-DP LUCKK SZW SSCOT (RNAV)-STAR .....	1100-0300
Minneapolis (MSP) .....	NOONE J89 IIU J89 BAE EAU-STAR .....	1100-0300
Naples (APF) .....	SOTWO J43 SZW PIKKR (RNAV)-STAR.....	
Newark (EWR) .....	GSO J14 J51 FAK DYLIN-STAR.....	1100-0200
	or	
	(GPS or DME/DME-IRU equipped) GSO J14 J51 FAK PHLBO (RNAV)-STAR .....	1100-0200
Orlando (MCO) .....	SOONE J89 OTK LEESE-STAR .....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) SOONE J89 OTK PIGLT (RNAV)-STAR .....	1100-0400
Orlando (ORL) .....	(GPS or DME/DME-IRU equipped) SOONE J89 OTK PIGLT (RNAV)-STAR .....	1100-0400
Panama City-Bay Co Intl (PFN) .....	NOVSS (RNAV) DP SARGE.....	
Pensacola Rgnl (PNS) .....	NOVSS (RNAV) DP SARGE.....	
Philadelphia (PHL) .....	EAONE SPA J14 J51 FAK DPNT-STAR .....	1100-0300
Raleigh-Durham (RDU) .....	EATWO IRQ CAE BUZZY-STAR .....	1100-0300
Sarasota/Bradenton (SRQ) .....	J43 SZW CLAMP-STAR .....	1100-0300
Tampa (TPA) .....	SOTWO J43 SZW DARBS-STAR .....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) SOTWO J43 SZW FOXXX (RNAV)-STAR .....	1100-0300

Terminals	Route	Effective Times (UTC)
Teterboro (TEB) .....	(Advanced Nav Only) EAONE SPA J14 J51 FAK JAIKE-STAR .....	1100-0300
	or (Non-Advanced Nav Only) EAONE SPA J14 J51 FAK BRV AML J227 J49 J70 LVZ LVZ-STAR .....	1100-0300
Washington Natl (DCA) .....	(GPS or DME/DME-IRU equipped) EAONE SPA J14 RIC OJAAY (RNAV)-STAR .....	1100-0300
	or EAONE SPA J14 RIC IRONS-STAR .....	
West Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped) BRAVS (RNAV)-DP WALET OTK WLACE (RNAV)-STAR .....	1100-0300
Windsor Locks (BDL) .....	EATWO GRD J209 RDU J207 FKN J79 JFK DPK DPK-STAR .....	1100-0300
<b>AUGUSTA (AGS)</b> Kennedy (JFK) .....	GRD J209 ORF J121 SIE CAMRN-STAR .....	
<b>BIRMINGHAM (BHM)</b> Baltimore (BWI) .....	ATL J14 RIC OTT-STAR .....	
	or (GPS or DME/DME-IRU equipped) ATL J14 RIC RAVNN (RNAV)-STAR .....	
Chicago Midway (MDW) .....	(/E/G/R/J/L/Q only) VUZ IIU OKK FISSK (RNAV)-STAR .....	1100-0300
	or (non-advanced RNAV only) VUZ IIU OKK V285 CLEFT OXI CGT .....	1100-0300
Chicago O'Hare (ORD) .....	MEM FTZ BDF BDF-STAR .....	0000-2359
Detroit/Wayne (DTW) .....	(RNAV only) BNA IMPEL VHP FWA MIZAR-STAR .... or BNA CCT VHP FWA MIZAR-STAR .....	
Houston (HOU) .....	(DME/DME-IRU or GPS-equipped) MEI AEX ROKIT (RNAV)-STAR .....	
Houston (IAH) .....	(Non-advanced NAV only) MEI AEX DAS-STAR (Turbojets-DME/DME-IRU or GPS-equipped) MEI AEX TXMEX (RNAV)-STAR .....	
	or (Non-advanced NAV only) MEI AEX DAS-STAR ATL J14 J51 FAK COATT-STAR .....	
Washington Dulles (IAD) .....	ATL J14 RIC IRONS-STAR .....	
Washington Natl (DCA) .....	or (GPS or DME/DME-IRU equipped) ATL J014 RIC OJAAY (RNAV)-STAR .....	
<b>CHARLESTON (CHS)</b> Baltimore (BWI) .....	J79 TYI J40 RIC OTT-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) J79 TYI J40 RIC RAVNN (RNAV)-STAR .....	1100-0400
Detroit/Wayne (DTW) .....	BKW GEMNI-STAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) MGM J37 SJI COLUMBIA (RNAV)-STAR .....	
	or (Non-advanced NAV only) MGM J37 SJI AEX DAS-STAR .....	
Houston (IAH) .....	(DME/DME-IRU or GPS-equipped) MGM J37 SJI WOLDE (RNAV)-STAR .....	
	or (Non-advanced NAV only) MGM J37 SJI AEX DAS-STAR .....	
Philadelphia (PHL) .....	J121 SWL SWL034 RADDS VCN-STAR .....	1100-0400
Washington Dulles (IAD) .....	J55 FLO J207 RDU FAK COATT-STAR .....	
	or (GPS or DME/DME-IRU equipped) J55 FLO J207 RDU FAK BARIN-STAR .....	



Terminals	Route	Effective Times (UTC)
<b>CHARLOTTE (CLT)</b>		
Baltimore (BWI) .....	MERIL RDU J52 RIC OTT-STAR.....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) MERIL RDU J52 RIC RAVNN (RNAV)-STAR .....	1100-0300
Boston (BOS) .....	MERIL RDU J207 FKN J79 JFK ORW-STAR.....	
Chicago Midway (MDW) .....	SADIE HNN FWA GOSHEN-STAR.....	1100-0300
	or	
Chicago O'Hare (ORD) .....	SADIE HVQ APE J178 FWA GOSHEN-STAR.....	1100-0300
	(/E/G/R/J/L/Q only) SADIE FLM HEVAN MZZ ROYKO (RNAV)-STAR .....	1100-0300
	or	
	(non-advanced RNAV only) SADIE FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR.....	1100-0300
Cincinnati (CVG) .....	(RNAV only) HMV JAKIE (RNAV)-STAR.....	
	or	
	(all others) HMV HARDU-STAR .....	
Denver (DEN) .....	HARAY SPA SPA270 VXV125 VXV BNA FAM J112 BUM J110 GCK J154 RYLIE DANDD-STAR .....	1100-0300
Detroit/Wayne (DTW) .....	HUGO-DP ROBAY BKW GEMNI-STAR .....	
Houston (HOU) .....	(DME/DME-IRU or GPS-equipped) AHN MGM J37 SJI WOLDE (RNAV)-STAR.....	
	or	
	(DME/DME-IRU or GPS-equipped) AHN ATL J14 VUZ AEX ROKIT (RNAV)-STAR.....	
	or	
	(Non-advanced NAV only) AHN ATL J14 VUZ AEX DAS-STAR .....	
	or	
	(DME/DME-IRU or GPS equipped) AHN MGM J37 SJI Columbia (RNAV)-STAR .....	
Houston (IAH) .....	(Turbojets-DME/DME-IRU or GPS-equipped) AHN ATL J14 VUZ AEX TXMEX (RNAV)-STAR.....	
	or	
	(Non-advanced NAV only) AHN ATL J14 VUZ AEX DAS-STAR .....	
Kennedy (JFK) .....	MERIL RDU J209 ORF J121 SIE CAMRN-STAR .....	
La Guardia (LGA) .....	MERIL RDU J55 HPW J191 PXT KORRY-STAR .....	1100-0300
Louisville (LOU) .....	SADIE LOZ V310 IIU .....	1100-0300
Newark (EWR) .....	RDU FAK DYLIN-STAR.....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) RDU FAK PHLBO (RNAV)-STAR .....	1100-0300
Norfolk (ORF) .....	MERIL RDU TYI CVI V1 DRONE .....	1100-0300
Philadelphia (PHL) .....	MERIL RDU248 J51 FAK DPNT-STAR .....	1100-0400
Richmond (RIC) .....	MERIL RDU LVL .....	
Teterboro (TEB) .....	(Advanced Nav Only) MERIL RDU FAK JAIKE-STAR .....	1100-0300
	or	
	(Non-Advanced Nav Only) MERIL RDU FAK BRV AML J227 J49 J70 LVZ LVZ-STAR .....	1100-0300
Washington Dulles (IAD) .....	MERIL RDU248 J51 FAK COATT-STAR.....	1100-0300
Washington Natl (DCA) .....	MERIL RDU J52 RIC IRONS-STAR.....	
	or	
	(GPS or DME/DME-IRU equipped) MERIL RDU J52 OJAAY (RNAV)-STAR .....	
Windsor Locks (BDL) .....	MERIL RDU J207 FKN J79 JFK DPK DPK-STAR.....	
<b>CHATTANOOGA (CHA)</b>		
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	0000-2359
	or	
	(non-advanced RNAV only) GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	0000-2359
<b>CINCINNATI (CVG)</b>		
Albany (ALB) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB.....	

Terminals	Route	Effective Times (UTC)
Allentown (ABE) .....	(RNAV only) ROCKT (RNAV)—DP ROCKT CADRE AHTIY JST HAR .....	
Atlanta (ATL) .....	(RNAV only) BLUEGRASS—DP BWG ERLIN (RNAV)—STAR .....	
	or	
Baltimore (BWI) .....	(all others) BLUEGRASS—DP BWG ROME—STAR..... V128 YRK HVQ J8 CSN OTT—STAR .....	
	or	
	(GPS or DME/DME—IRU equipped) V128 YRK HVQ J8 CSN RAVNN (RNAV)—STAR .....	
Birmingham (BHM) .....	BLUEGRASS—DP TRFWA LVT SYI VUZ .....	
Boca Raton (BCT) .....	(GPS or DME/DME—IRU equipped) BLUEGRASS—DP TRFWA NOTWO WALET HITTR LATHY PRRIE (RNAV)—STAR .....	
	or	
	(GPS or DME/DME—IRU equipped) BLUEGRASS—DP HYK VXV J43 ATL J89 OTK PRRIE (RNAV)—STAR.	
Boston (BOS) .....	(RNAV only) ROCKT (RNAV)—DP ROCKT CADRE AHTIY PSB HNK ALB GDM GARDNER—STAR.....	
Chicago O'Hare (ORD) .....	(Advanced NAV only) JBNCH (RNAV)—DP MIE MZZR ROYKO (RNAV)—STAR .....	
	or	
	(Non—Advance Nav only) HAGOL (RNAV)—DP DQN FWA KNOX—STAR .....	
	or	
	HAGOL (RNAV)—DP DQN FWA WATSN (RNAV)—STAR .....	
Dallas/Ft. Worth (DFW) .....	IIU PXV J131 LIT BYP .....	
Fort Lauderdale (FLL) .....	(GPS or DME/DME—IRU equipped) SILK (RNAV)—DP TRFWA NOTWO OTK JINGL (RNAV)—STAR .....	
	or	
	(all others) BLUEGRASS—DP HYK VXV J43 ATL J89 HITTR J75 FORTL—STAR .....	
Fort Myers (FMY) .....	(Turbojets, DME/DME—IRU or GPS) KENLN (RNAV)—DP HYK VXV J43 SZW TYNEE (RNAV)—STAR .....	
	or	
	(all others) BLUEGRASS—DP HKY VXV J43 SZW PIE JOSFF—STAR .....	
Fort Myers (RSW) .....	(GPS or DME/DME—IRU equipped) KENLN (RNAV)—DP HYK VXV J43 SZW TYNEE (RNAV)—STAR .....	1100–0300
	or	
	(all others) BLUEGRASS—DP HYK VXV J43 SZW PIE JOSFF—STAR .....	
Harrisburg (MDT) .....	(RNAV only) ROCKT (RNAV)—DP AHTIY JST HAR .....	
Houston (HOU) .....	(GPS or DME/DME—IRU equipped) CHCLL (RNAV)—DP BWG J6 LIT J180 SWB ROKIT (RNAV)—STAR .....	
	or	
	(Non—advanced NAV only) BLUEGRASS—DP BWG J6 LIT J180 SWB DAS—STAR .....	
Houston (IAH) .....	(Turbojets—GPS or DME/DME—IRU equipped) LIT CHCLL (RNAV)—DP BWG J6 LIT J180 SWB TXMEX (RNAV)—STAR .....	
	or	
	(all others) LIT J180 SWB BLUEGRASS—DP BWG J6 DAS—STAR .....	
Jackson (JAN) .....	(all others) BLUEGRASS—DP TRFWA LVT SYI VUZ JAN .....	
	or	
	(RNAV only) SILKS (RNAV)—DP TRFWA LVT SYI VUZ JAN .....	
La Guardia (LGA) .....	(RNAV only) ROCKT (RNAV)—DP AHTIY PSB MILTON—STAR .....	1000–1800

Terminals	Route	Effective Times (UTC)
Manchester (MHT).....	(RNAV only) ROCKT (RNAV)–DP AHTIY PSB ALB EEN .....	
Marco Island (MKY) .....	(all others) BLUEGRASS–DP HYK VXV J43 SZW PIKKR (RNAV)–STAR .....	
	or (RNAV only) KENLN (RNAV)–DP HYK VXV J43 SZW PIKKR (RNAV)–STAR .....	
Miami (MIA) .....	(Turbojets–GPS or DME/DME–IRU equipped) SILKS (RNAV)–DP TRFWA NOTWO SZW SSCOT (RNAV)–STAR .....	
	or (all others) BLUEGRASS–DP HYK VXV J43 ATL SZW J43 PIE CYY–STAR .....	
Mobile (MOB) .....	(all others) BLUEGRASS–DP TRFWA LVT SYI VUZ SJI .....	
	or (RNAV only) SILKS (RNAV)–DP TRFWA LVT SYI VUZ SJI .....	
Naples (APF).....	HYK VXV J43 SZW PIKKR (RNAV)–STAR .....	
Newark (EWR) .....	ROD J29 J584 SLT FQM–STAR .....	
Newburgh (SWF).....	(RNAV only) ROCKT (RNAV)–DP ROCKT CADRE AHTIY PSB J49 HNK DNY V483 FILPS .....	
New Orleans (MSY) .....	(all others) BLUEGRASS–DP TRFWA LVT SYI VUZ J22 MEI RYTHM–STAR .....	
	or (RNAV only) SILKS (RNAV)–DP TRFWA LVT SYI VUZ J22 MEI RHYTHM–STAR .....	
Orlando Executive (ORL) .....	(all others) BLUEGRASS–DP HYK VXV J99 IRQ J85 AMG LEESE–STAR .....	1100–0300
	or (GPS or DME/DME–IRU equipped) HYK VXV J99 IRQ J85 AMG SHEMA MTATA PIGLT (RNAV)–STAR .....	1100–0400
Orlando Intl (MCO) .....	(all others) BLUEGRASS–DP HYK VXV J99 IRQ J85 AMG LEESE–STAR .....	1100–0300
	or (GPS or DME/DME–IRU equipped) KENLN (RNAV)–DP HYK VXV J99 IRQ J85 AMG BUGGZ (RNAV)–STAR .....	1100–0400
Philadelphia (PHL) .....	(RNAV only) ROCKT (RNAV)–DP AHTIY JST BUNTS–STAR .....	
Phoenix (PHX) .....	BLUEGRASS–DP IIIU PXV J78C IRW J74C CNX ZUN BUNTR .....	
	or BLUEGRASS–DP IIIU PXV J78C ZUN BUNTR .....	
	or CHCLL–DP IIIU PXV J78C ZUN EAGUL .....	
	or CHCLL–DP IIIU PXV J78C IRW J74C CNX ZUN EAGUL .....	
Portland (PWM).....	(RNAV only) ROCKT (RNAV)–DP AHTIY PSB J49 ALB ENE .....	
Providence (PVD) .....	(RNAV only) ROCKT (RNAV)–DP AHTIY PSB J49 HNK TEDDY–STAR .....	
Sarasota/Bradenton (SRQ).....	(all others) BLUEGRASS–DP HYK VXV J43 SZW CLAMP–STAR .....	
	or (RNAV only) KENLN (RNAV)–DP HYK VXV J43 SZW CLAMP–STAR .....	
Tampa (TPA) .....	HYK VXV J43 SZW DARBS–STAR .....	
	or (GPS or DME/DME–IRU equipped) KENLN (RNAV)–DP HYK VXV J43 SZW FOXXX (RNAV)–STAR .....	

Terminals	Route	Effective Times (UTC)
Washington Dulles (IAD).....	(all others) RHOMM-DP HVQ ROYL-STAR .....	
	or	
	(RNAV only) GIPLE (RNAV)-DP HVQ SHANON	
	(RNAV)-STAR .....	
Washington Natl (DCA).....	V128 YRK HVQ WZRRD-STAR .....	
	or	
	V128 YRK HVQ ELDEE (RNAV)-STAR .....	
West Palm Beach (PBI) .....	(GPS or DME/DME-IRU equipped) SILKS	
	RNAV-DP TRFWA NOTWO OTK WLACE	
	(RNAV-STAR) .....	
	or	
	(GPS or DME/DME-IRU equipped) KENLN	
	(RNAV)-DP HYK VXV J43 ATL J89 OTK WLACE	
	(RNAV-STAR) .....	
Wilkes Barre/Scranton (AVP) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
	ANTIY PSB LVZ .....	
Windsor Locks (BDL) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
	AHTIY PSB RKA SWEDE-SWEDE-STAR .....	
<b>DAYTONA BEACH (DAB)</b>		
Charlotte (CLT).....	CRG J51 SAV J207 FLO CTF-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) CRG	
	J51 SAV HUSTN (RNAV)-STAR .....	
<b>FORT LAUDERDALE METRO AREA</b>		
<b>(FLL, FXE, PMP)</b>		
Albany (ALB) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM	
	KEMPR SBY J79 JOANI LGA LGA055 TRUDE	
	V487 CANAN V130 .....	
Atlanta (ATL) .....	J20 ORL J81 CHESN SINCA-STAR .....	1000-0300
	or	
	(RNAV only) J20 ORL J81 CHESN CANUK (RNAV)	
	-STAR .....	1000-0300
Baltimore (BWI) .....	(at or below 310) J20 ORL J53 CRG J51 SAV J55	
	CHS J165 RIC OTT-STAR .....	1000-0300
	or	
	(Water-Turbojets) ZAPPA PERMT AR16 ILM J40	
	RIC OTT-STAR .....	1000-0300
	or	
	(at or above 330) J113 CRG J51 SAV J55 CHS	
	J165 RIC OTT-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) (at or below	
	310) J20 ORL J53 CRG J51 SAV J55 CHS J165	
	RIC RAVNN (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) (at or above	
	330) J113 CRG J151 SAV J55 CHS J165 RIC	
	RAVNN (RNAV)-STAR .....	1000-0300
	or	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) ZAPPA PERMT AR16 ILM J40 RIC	
	RAVNN (RNAV)-STAR .....	1000-0300
Bedford (BED).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM	
	KEMPR SBY J79 JFK DPK MAD HFD	
	GRAYM-STAR .....	
	or	
	(Water-Turbojets) (Alternate) ZAPPA WOLFO AR18	
	DIW WETRO CEBEE SWL J174 HTO ORW	
	GRAYM-STAR .....	
Beverly (BVY).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM	
	KEMPR SBY J79 JFK DPK MAD HFD	
	GRAYM-STAR .....	
	or	

Terminals	Route	Effective Times (UTC)
	(Water-Turbojets) (Alternate) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Boston (BOS) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK ORW-STAR .....	1000-0300
	or (at or below 290) J20 ORL J53 CRG J51 SAV J55 CHS J79 JFK ORW-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J55 CHS J79 JFK ORW-STAR .....	1000-0300
Bridgeport (BDR) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
Charlotte (CLT) .....	(at or below 290) J20 ORL J53 CRG J51 SAV J207 FLO CTF-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J207 FLO CTF-STAR .....	1000-0300
	or (at or above 330-Turbojets-GPS or DME/DME-IRU equipped) J113 CRG J51 SAV HUSTN (RNAV)-STAR .....	1000-0300
	or (at or below 290-Turbojets-GPS or DME/DME-IRU equipped) J20 ORL J53 CRG J51 SAV HUSTN (RNAV)-STAR .....	1000-0300
Chicago Midway (MDW) .....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR .....	1000-0300
	or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT .....	1000-0300
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	1000-0300
	or (non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	1000-0300
	(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR .....	
Cincinnati (CVG) .....	(all others) CTY J91 VXV HARDU-STAR .....	1000-0300
	or (RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR ....	
Cleveland (CLE) .....	J20 ORL J53 IRQ J85 HVQ J85 TVT040 KEATN KEATN-STAR .....	1000-0300
Columbus (CMH) .....	J20 ORL J81 IRQ J53 SPA J85 HVQ HNN BREMN-STAR .....	1000-0300
Cross City (CTY) .....	J85 LLAKE CTY .....	1030-0300
	or CTY .....	
Dallas/Fort Worth (DFW) .....	LAL J73 SZW J2 CEW J50 AEX CQY .....	1000-0300
	or SRQ Q100 REDFN Q105 HRV J58 AEX CQY .....	1000-0300
Danbury (DXR) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR .....	
Daytona Beach (DAB) .....	J20 LLNCH MLB V3 .....	1030-0300
Denver (DEN) .....	LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR .....	1030-0300
	or SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR .....	1030-0300
Detroit/Wayne (DTW) .....	J20 ORL J53 SPA HNN WEEDA-STAR .....	
Detroit Satellites:		
Ann Arbor (ARB) .....	J20 ORL J81 IRQ J99 VXV J43 FLM DQN CRUXX-STAR .....	

Terminals	Route	Effective Times (UTC)
Pontiac (PTK), Windsor (CYQG) .....	J20 ORL J81 IRQ J85 DJB LLEEO-STAR .....	
Willow Run (YIP) .....	J20 ORL J81 IRQ J99 VXV J43 FLM DQN CRUX-STAR .....	1000-0300
Young (DET) .....	J20 ORL J81 IRQ J85 DJB LLEEO-STAR .....	1000-0300
East Hampton (HTO) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 .....	
Farmingdale (FRG) .....	(Water) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	
Gainesville (GNV) .....	J85 LLAKE LAL GNV or LAL GNV .....	1030-0300
Groton/New London (GON) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO .....	
Hartford (HFD) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 .....	
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) LAL J73 SZW J2 CEW-030 J50 AEX DAS-STAR .....	1000-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	
Indianapolis (IND) .....	CTY J91 ATL J89 IJU DECEE-STAR .....	1000-0300
Islip (ISP) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SARDI CCC .....	
Jacksonville (CRG) .....	J20 ORL J53 .....	1030-0300
Kennedy (JFK) .....	(Water-Turbojets) ZAPPA WOLFO AR18 WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	1000-0300
	or (at or below 290) J20 ORL J53 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR .....	1000-0300
La Guardia (LGA) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR .....	1000-0300
	or (at or below 290) J20 ORL J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR .....	1000-0300
Lawrence (LWM) .....	(Water-Turbojets) (Alternate) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	or (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
Louisville (SDF) .....	CTY J91 ATL HCH DARBY-STAR .....	1000-0300
Manchester (MHT) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN .....	
Melbourne (MLB) .....	J20 LLNCH MLB .....	1030-0300
Minneapolis (MSP) .....	CTY J91 ATL J89 BAE EAU-STAR .....	1000-0300
Montreal (CYUL) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR .....	
Nantucket (ACK) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO V46 .....	

Terminals	Route	Effective Times (UTC)
Nashville (BNA).....	CTY J91 ATL GQO VOLLS-STAR.....	1000-0300
Newark (EWR).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM J109 FAK DYLIN-STAR.....	1000-0300
	or	
	(at or below 310) J20 ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR .....	1000-0300
	or	
	(at or above 330) J113 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR.....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped-at or above 330) J113 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped-at or below 310) J20 ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR .....	1000-0300
Newburgh (SWF).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR.....	
New Haven (HVN).....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
New Orleans (MSY) .....	SRQ Q100 REDFN Q105 HRV.....	1000-0300
	or	
Ocala (OCF).....	LAL J73 SZW J2 .....	1000-0300
	J85 LLAKE LAL .....	1030-0300
	or	
	LAL .....	1030-0300
Orlando (MCO) .....	J20 LLNCH GOOFY-STAR .....	1030-0300
Overwater Routes to the Northeast.....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW .....	1030-0300
Overwater Routes to the Northwest .....	LBV J616 .....	1030-0300
	or	
	LBV J616 SRQ Q100 REDFN Q105 HRV J58 .....	1030-0300
Philadelphia (PHL).....	J20 ORL J53 CRG J51 SAV J55 CHS J121 SWL SWL034 RADDs CEDAR LAKE-STAR .....	1000-0300
	or	
	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL RADDs CEDAR LAKE-STAR .....	1000-0300
Pittsburgh (PIT).....	(at or below 290) J20 ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR .....	1000-0300
	or	
	(at or above 330) J113 CRG J51 CAE PSK EKN IHD NESTO-STAR .....	1000-0300
Poughkeepsie (POU).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR.....	
Providence (PVD) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR.....	
Raleigh-Durham (RDU) .....	(at or below 290) J20 ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR .....	1000-0300
	or	
	(at or above 330) J113 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR .....	1000-0300
	or	
	(Water-Turbojets) ZAPPA PERMT AR16 ILM BRADE-STAR.....	1000-0300
St Louis (STL).....	THNDR CTY J151 VISQA QBALL-STAR .....	
	or	
	(/E, /G, /R, /J, /L, /Q) THNDR KPASA Q110 FEONA VUZ J151 VISQA QBALL-STAR .....	
Sarasota/Bradenton (SRQ) .....	LBV J43 ROGAN .....	1030-0300
	or	
	ROGAN .....	1030-0300

Terminals	Route	Effective Times (UTC)
Springfield/Chicopee (CEF) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR ..	
Tallahassee (TLH) .....	J85 LLAKE LAL SZW .....	1030-0300
	or	
	LAL .....	1030-0300
Tampa (TPA) .....	J85 THNDR LBV BRDGE-STAR .....	1030-0300
	or	
	BRDGE BRDGE-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) J85 THNDR LBV DEAKK (RNAV)-STAR .....	1030-0300
Toronto (CYYZ) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM J109 BUF YOUTH-STAR .....	
Vero Beach (VRB) .....	J20 ARKES VRB .....	1030-0300
Washington Dulles (IAD) .....	(at or below 310) J20 ORL J53 CRG J51 SAV J207 RDU FAK COATT-STAR .....	1000-0300
	or	
	(at or below 310-GPS or DME/DME-IRU equipped) J20 ORL J53 CRG J51 SAV J207 RDU FAK BARIN-STAR .....	1000-0300
	(at or above 330-GPS or DME/DME-IRU equipped) J113 CRG J51 SAV J207 RDU FAK BARIN-STAR .....	1000-0300
	or	
	(at or above 330) J113 CRG J51 SAV J207 RDU FAK COATT-STAR .....	1000-0300
	or	
	(Water) ZAPPA PERMT AR16 ILM J109 FAK COATT-STAR .....	1000-0300
	or	
	(Water-GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J109 FAK BARIN-STAR .....	1000-0300
Washington Natl (DCA) .....	(at or below 310) J20 ORL J53 CRG J51 SAV J55 CHS J165 RIC IRONS-STAR .....	1000-0300
	or	
	(at or above 330) J113 CRG J51 SAV J55 CHS J165 RIC IRONS-STAR .....	1000-0300
	or	
	(Water-Turbojets) ZAPPA PERMT AR16 ILM J40 RIC IRONS-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped-at or below 310) J20 ORL J53 CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped-at or above 330) J113 CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR .....	1000-0300
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J40 RIC OJAAY (RNAV)-STAR .....	1000-0300
Westfield (BAF) .....	(Water-Turbojets) ZAPPA PERMIT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR ..	
Westhampton Beach (FOK) .....	(Water-Turbojets) ZAPPA WOLFO AR18 WETRO CEBEE SWL J121 HTO .....	
White Plains (HPN) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR .....	
	or	
	(Water-Turboprops) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR .....	



Terminals	Route	Effective Times (UTC)
Wilmington (ILM) .....	(Water-Turbojets-Overwater Routes to the NE) ZAPPA PERMT AR16 .....	
Windsor Locks (BDL) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR ..	
Worcester (ORH) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD .....	
<b>FORT MYERS METRO AREA</b>		
<b>(RSW, FMY, APF, MKY, PGD)</b>		
Daytona Beach (DAB) .....	ORL .....	1030-0300
Gainesville (GNV) .....	LAL .....	1030-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR .....	
	or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300
Jacksonville (CRG) .....	ORL J53 .....	1030-0300
Miami (MIA) .....	(all others) CY Y CY Y-STAR .....	1030-0300
	or (/E, /G, /R, /J, /L, /Q) CY Y DEEDS (RNAV)-STAR .....	1030-0300
Ocala (OCF) .....	LAL .....	1030-0300
Orlando (MCO) .....	LAL MINEE-STAR .....	1030-0300
	or DOWNN MINEE-STAR .....	1030-0300
	or LAL .....	1030-0300
	or (Turbojets) ORL .....	1030-0300
	or (Turbojets) DOWNN MINEE-STAR .....	1030-0300
Tallahassee (TLH) .....	LAL .....	1030-0300
Tampa (TPA) .....	RSW BRDGE-STAR .....	1030-0300
	or V7 ROGAN J43 PIE .....	1030-0300
	or (GPS or DME/DME-IRU equipped) DEAKK (RNAV)-STAR .....	1030-0300
Westbound destinations .....	SRQ Q100 LEV J86 .....	
	or BAGGS Q102 LEV J86 .....	
	or SRQ 100 REDFN Q105 HRV J58 .....	
<b>From PAGE FLD (FMY) only:</b>		
Cincinnati (CVG) .....	(RNAV only) LAL CTY J91 VXV JAKIE (RNAV)-STAR or (all others) LAL CTY J91 ATL VXV HARDU-STAR ...	
Cleveland Metro (CLE) .....	LAL CTY J91 HNN TVT KEATN-STAR .....	
Columbus (CMH) .....	LAL CTY J91 HNN BREMN-STAR .....	
Detroit/Wayne (DTW) .....	LAL CTY J91 YXV J43 FLM DQN MIZAR-STAR .....	
<b>Detroit Satellites:</b>		
Ann Arbor (ARB), Willow Run (YIP) .....	LAL CTY J91 VXV J43 FLM DQN CRUXX-STAR .....	
Pontiac (PTK), Windsor (CYQG), Young (DET) .....	LAL J73 J119 TAY J85 DJB LLEE0-STAR .....	
La Guardia (LGA) .....	ORL J53 CRG J51 SAV J207 J55 HPW J191 PXT KORRY-STAR .....	1100-0300

Terminals	Route	Effective Times (UTC)
Miami (MIA).....	(Turbojets-GPS or DME/DME-IRU equipped) CYY SSCOT (RNAV)-STAR .....	
Newark (EWR) .....	ORL J53 CRG J51 FAK DYLIN-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) ORL J53 CRG J51 FAK PHLBO(RNAV)-STAR .....	1100-0400
Washington Natl (DCA).....	ORL J53 CRG J51 SAV J55 CHS J165 RIC IRONS-STAR .....	1000-0300
<b>From SW FLORIDA INTL (RSW) only:</b>		
Atlanta (ATL) .....	RSW LAL J73 SZW LGC-STAR .....	1000-0300
	or	
	(RNAV only) RSW LAL J73 SZW HONIE (RNAV)-STAR .....	1000-0300
Chicago Midway (MDW) .....	(/E/G/R/J/L/Q only) RSW LAL CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR .....	1000-0300
	or	
	(non-advanced RNAV only) RSW LAL CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT .....	1000-0300
Chicago O'Hare (ORD).....	(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	1000-0300
	or	
	(non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 KNOX-STAR .....	1000-0300
Cleveland (CLE).....	RSW LAL J73 J119 TAY J85 IRQ J85 HVQ J85 TVT040 KEATN KEATN-STAR .....	
Columbus (CMH) .....	RSW LAL J73 J119 TAY J85 HVQ HNN BREMN-STAR .....	1000-0300
Dallas/Ft. Worth (DFW) .....	RSW SRQ Q100 REDFN Q105 HRV J58 AEX CQY ..	
	or	
	RSW LAL J73 SZW J2 CEW J50 AEX CQY .....	1000-0300
Denver (DEN) .....	RSW SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR .....	
	or	
	RSW LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR .....	
Detroit/Wayne (DTW) .....	JOCKS ORL J53 SPA HNN WEEDA-STAR .....	
Detroit Satellites:		
Ann Arbor (ARB), Willow Run (YIP) .....	LAL CTY J91 VXV J43 FLM DQN CRUXX-STAR .....	
Pontiac (PTK), Windsor (CYQG), Young (DET) .....	LAL J73 J119 TAY J85 DJB LLEE0-STAR .....	
Indianapolis (IND) .....	RSW LAL CTY J91 ATL J89 IIU DECEE-STAR .....	
Louisville (SDF) .....	RSW LAL CTY J91 ATL HCH DARBY-STAR .....	
Miami (MIA).....	(Turbojets-GPS or DME/DME-IRU equipped) CYY SSCOT (RNAV)-STAR .....	
Minneapolis (MSP) .....	RSW LAL CTY J91 ATL J89 BAE EAU-STAR .....	1000-0300
Nashville (BNA) .....	RSW LAL CTY J91 ATL GQO VOLLS-STAR .....	
Pittsburgh (PIT) .....	RSW ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR .....	1000-0300
Raleigh-Durham (RDU).....	RSW ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR .....	
St Louis (STL) .....	LAL J73 SZW J41 VUZ STL .....	1100-0300
Washington Dulles (IAD).....	RSW ORL J53 CRG J51 SAV J207 RDU FAK COATT-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) RSW ORL J53 CRG J51 SAV J207 RDU FAK BARIN-STAR .....	1000-0300
Washington Natl (DCA) .....	RSW ORL J53 CRG J51 SAV J55 CHS J165 RIC IRONS-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) RSW ORL J53 CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR .....	1000-0300

Terminals	Route	Effective Times (UTC)
<b>GREENSBORO (GSO)</b>		
Chicago Midway (MDW) .....	PSK HNN FWA GOSHEN-STAR .....	1100-0300
	or	
Chicago O'Hare (ORD) .....	PSK HVQ APE J178 FWA GOSHEN-STAR .....	1100-0300
	(/E/G/R/J/L/Q only) BOTTM FLM HEVAN MZZ	
	ROYKO (RNAV)-STAR .....	1100-0300
	or	
	(non-advanced RNAV only) BOTTM FLM HEVAN	
	MZZ MZZ344/33 OXI KNOX-STAR .....	1100-0300
Cincinnati (LUK) .....	PSK HVQ FLM .....	0700-2300
Detroit/Wayne (DTW) .....	BOTTM BKW GEMNI-STAR .....	
La Guardia (LGA) .....	J14 PXT KORRY-STAR .....	
Louisville (SDF) .....	VXV J99 GHATS EWO IIIU .....	0700-2300
Newark (EWR) .....	J14 J51 FAK DYLIN-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J14 J51 FAK	
	PHLBO (RNAV)-STAR .....	
<b>GREER (GSP)</b>		
Detroit/Wayne (DTW) .....	SPA HMV HNN WEEDA-STAR .....	
<b>HUNTSVILLE (HSV)</b>		
Chicago O'Hare (ORD) .....	MEM FTZ BDF BDF-STAR .....	0000-2359
Detroit/Wayne (DTW) .....	(RNAV only) BNA IMPEL VHP FWA MIZAR-STAR ....	
	or	
	BNA CCT VHP FWA MIZAR-STAR .....	
<b>JACKSONVILLE METRO AREA (JAX)</b>		
Baltimore (BWI) .....	J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) J51 SAV J55	
	CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR .....	1100-0400
Charlotte (CLT) .....	J53 IRQ UNARM-STAR .....	
	or	
	J51 SAV J207 FLO CTF-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) J51	
	SAV HUSTN (RNAV)-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) J53	
	IRQ ADENA (RNAV)-STAR .....	
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) SAV CAE HMV FLM HEVAN	
	MZZ ROYKO (RNAV)-STAR .....	0000-2359
	or	
	(non-advanced RNAV only) SAV CAE HMV FLM	
	HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	0000-2359
Detroit/Wayne (DTW) .....	NOWAY J53 SPA HNN WEEDA-STAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) TAY J2 SJI	
	COLUMBIA (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) TAY J2 CEW J50 AEX	
	DAS-STAR .....	
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) TAY J2 SJI	
	WOLDE (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) TAY J2 CEW J50 AEX	
	DAS-STAR .....	
La Guardia (LGA) .....	J51 SAV J207 RDU J55 HPW J191 PXT	
	KORRY-STAR .....	1100-0400
Newark (EWR) .....	CRG J51 FAK DYLIN-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) CRG J51 FAK	
	PHLBO (RNAV)-STAR .....	
Philadelphia (PHL) .....	J51 SAV J55 CHS J121 SWL SWL034 RADDS	
	VCN-STAR .....	1100-0400

Terminals	Route	Effective Times (UTC)
Tampa (TPA) .....	TAY LZARD-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) TAY DADES	
	(RNAV)-STAR .....	
Washington Dulles (IAD) .....	SAV CHS J165 J109 FAK COATT-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) SAV J207 RDU	
	FAK BARIN-STAR .....	1100-0400
Washington Natl (DCA) .....	J51 SAV J55 CHS J165 RIC IRONS-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) J51 SAV J55	
	CHS J165 RIC OJAAV (RNAV)-STAR	1100-0400
<b>KEY WEST METRO AREA (NQX)</b>		
Daytona Beach (DAB) .....	RSW ORL .....	1030-0300
Fort Lauderdale (FLL) .....	(all others) EYW DVALL-STAR .....	1030-0300
	or	
	(/E, /G, /R, /J, /L, /Q) EYW CORSO	
	(RNAV)-STAR .....	1030-0300
Fort Myers (RSW) .....		1030-0300
Melbourne (MLB) .....	PHK .....	1030-0300
Miami (MIA) .....	(all others) EYW DVALL-STAR .....	1030-0300
	or	
	(/E, G, /R, /J, /L, /Q) EYW CORSO (RNAV)-STAR	1030-0300
Orlando (MCO) .....	RSW MINEE-STAR .....	1030-0300
Palm Beach (PBI) .....	PHK .....	1030-0300
Sarasota/Bradenton (SRQ) .....	RSW V7 ROGAN .....	1030-0300
Tallahassee (TLH) .....	RSW LAL .....	1030-0300
	or	
	(at or above FL360) RSW TEPEE .....	1030-0300
Tampa (TPA) .....	RSW BRDGE-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) RSW DEAKK	
	(RNAV)-STAR .....	1000-0300
Vero Beach (VRB) .....	PHK .....	1030-0300
<b>KNOXVILLE (TYS)</b>		
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) VXV HEVAN MZZ ROYKO	
	(RNAV)-STAR .....	0000-2359
	or	
	(non-advanced RNAV only) VXV HEVAN MZZ	
	MZZ344/33 OXI KNOX-STAR .....	0000-2359
Cleveland Metro (CLE) .....	VXV J91 BULEY J91 HNN TVT KEATN-STAR .....	
Detroit/Wayne (DTW) .....	VXV J91 HNN WEEDA-STAR .....	
La Guardia (LGA) .....	BKW J42 GVE KORRY-STAR .....	
<b>LAKELAND METRO AREA (LAL, GIF, BOW, BKV, X16)</b>		
Fort Lauderdale (FLL) .....	(Jets only-all others) RSW FORTL-STAR .....	
Key West Intl (EYW) .....	RSW J41 .....	1030-0300
Miami (MIA) .....	(Turbojets-GPS or DME/DME-IRU equipped) CYV	
	SSCOT (RNAV)-STAR .....	
West Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped)	
	WLACE (RANV)-STAR .....	1030-0300
<b>LEXINGTON (LEX)</b>		
Atlanta (ATL) .....	(RNAV only) AZQ SOT FLCON (RNAV)-STAR .....	
Cleveland (CLE) .....	CVG ABERZ-STAR .....	
<b>LOUISVILLE METRO AREA (LOU, SDF)</b>		
From BOWMAN FIELD (LOU) only		
Dallas/Ft Worth (DFW) .....	PXV J131 LIT BYP .....	
Phoenix (PHX) .....	FAM J78 ABQ J18 .....	
	or	
	FAM J78 IRW J74 SJN J18 .....	

Terminals	Route	Effective Times (UTC)
From LOUISVILLE INTL (SDF) only		
Atlanta (ATL) .....	MYS BWG ROME-STAR .....	
	or	
	(RNAV only) MYS BWG RMG ERLIN (RNAV)-STAR	
Cleveland Metro (CLE) .....	CVG ABERZ-STAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SWB ROKIT	
	(RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) SWB DAS-STAR .....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) SWB	
	TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) SWB DAS-STAR .....	
<b>MEMPHIS (MEM)</b>		
Baltimore (BWI) .....	J42 BKW J147 CSN OTT-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J42 BKW J147	
	CSN RAVNN (RNAV)-STAR .....	
Boca Raton (BCT) .....	(GPS or DME/DME-IRU equipped) MGM SZW	
	PRRIE (RNAV)-STAR .....	
Boston (BOS) .....	J42 BNA J46 VXV SPA SPA100 J209 RDU J207	
	FKN J79 JFK ORW-STAR .....	
	or	
	J118 SPA SPA100 J209 RDU J207 FKN J79 JFK	
	ORW-STAR .....	
Cincinnati (CVG) .....	(RNAV only) J29 PXV SARGO (RNAV)-STAR .....	
	or	
	(all others) J29 PXV MOSEY-STAR .....	
Cleveland (CLE) .....	PXV ABERZ-STAR .....	
Denver (DEN) .....	RZC PER GCK J154 RYLIE DANDD-STAR .....	
Detroit/Wayne (DTW) .....	J29 PXV VHP FWA MIZAR-STAR .....	
Houston (HOU) .....	(DME/DME-IRU or GPS-equipped) LIT J180 SWB	
	ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR	
Houston (IAH) .....	(Turbojets-DME/DME-IRU or GPS-equipped) LIT	
	J180 SWB TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR	
Kennedy (JFK) .....	J118 SPA SPA100 J209 ORF J121 SIE	
	CAMRN-STAR .....	
La Guardia (LGA) .....	J42 GVE KORRY-STAR .....	
Louisville (SDF) .....	BNA BNA037 BARRY EWO .....	
	or	
	Q29 SIDAE CHERI CHERI-STAR .....	
Minneapolis (MSP) .....	J35 STL IOW ALO KASPR-STAR .....	1300-0300
Newark (EWR) .....	J42 GVE DYLIN-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J42 GVE	
	PHLBO (RNAV)-STAR .....	
Orlando (ORL/MCO) .....	MGM SZW J43 PIE LAL .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) MGM SZW J43	
	PIE COSTR (RNAV)-STAR .....	1100-0400
	or	
	J41 MGM S2W J43 PIE LAL .....	
Philadelphia (PHL) .....	J42 GVE DPNT-STAR .....	
Pittsburgh (PIT) .....	J29 PXV IIU HNN WISKE-STAR .....	
Sarasota/Bradenton (SRQ) .....	MGM SZW CLAMP-STAR .....	
Tampa (TPA) .....	MGM SZW DARBS-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) MEM SZW	
	FOXX (RNAV)-STAR .....	1100-0400

Terminals	Route	Effective Times (UTC)
Washington Dulles (IAD).....	J42 BKW ROYIL-STAR.....	1100-1830
	or	
	PXV IIU J8 HVQ SHNON (RNAV)-STAR .....	1830-2230
	or	
	J42 BKW SHNON (RNAV)-STAR .....	2230-0300
	or	
	PXV IIU J8 HVQ ROYIL-STAR .....	1830-2230
Washington Natl (DCA).....	J42 BKW WZRRD-STAR.....	
	or	
	(GPS or DME/DME-IRU equipped) J42 BKW ELDEE (RNAV)-STAR.....	
West Palm Beach (PBI) .....	MGM SZW WLACE (RNAV)-STAR.....	
Windsor Locks (BDL) .....	J42 BNA J46 VXV SPA SPA100 J209 RDU J207 FKN J79 JFK DPK DPK-STAR .....	
<b>MIAMI METRO AREA</b>		
<b>(MIA, HWO, OPF, TMB, HST, X51)</b>		
Albany (ALB).....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130 .....	
Atlanta (ATL) .....	J81 CHESN SINCA-STAR.....	1000-0300
	or	
	(RNAV only) J81 CHESN CANUK (RNAV)-STAR .....	1000-0300
Baltimore (BWI) .....	J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR .....	1000-0300
	or	
	(Water-Turbojets) VALLY PERMT AR16 ILM J40 RIC OTT-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) VALLEY PERMT AR16 ILM J40 RIC RAVNN (RNAV)-STAR.....	1000-0300
Bedford (BED).....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or	
	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Beverly (BVY).....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or	
	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Boston (BOS) .....	J53 CRG J51 SAV J55 CHS J79 JFK ORW-STAR ...	1000-0300
	or	
	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK ORW-STAR .....	
Chicago Midway (MDW).....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR.....	1000-0300
	or	
	(non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT .....	1000-0300
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	1000-0300
	or	
	(non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR.....	1000-0300

Terminals	Route	Effective Times (UTC)
Cincinnati (CVG).....	(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR .....	
	or	
	(all others) CTY J91 VXV HARDU-STAR.....	1000-0300
Columbus (CMH).....	J81 IRQ J53 SPA J85 HVQ HNN BREMN-STAR .....	
Cross City (CTY).....	LAL CTY .....	1030-0300
Dallas/Fort Worth (DFW) .....	J616 SRQ Q100 REDFN Q105 HRV J58 AEX CQY .	1000-0300
	or	
	LAL J73 SZW J2 CEW J50 AEX CQY.....	1000-0300
Danbury (DXR) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR.....	
Daytona Beach (DAB)	J53 HEDLY MLB V3 or MLB V3.....	1030-0300
Denver (DEN).....	LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR .....	
Detroit/Wayne (DTW).....	J53 SPA HNN WEEDA-STAR.....	
Detroit Satellites:		
Ann Arbor (ARB), .....	J81 IRQ J99 VXV J43 FLM DQN CRUXX-STAR.....	
Detroit (DET),		
Pontiac (PTK),		
Windsor (CYQG)		
Willow Run (YIP)		
Ann Arbor (ARB) .....	J81 IRQ J85 DJB LLEE0-STAR .....	
Fort Pierce (FPR) .....	J53 HEDLY or FPR .....	1030-0300
Farmingdale (FRG).....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	
Gainesville (GNV) .....	Direct .....	1030-0300
Hampton (HTO) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 .....	
Hartford (HFD) .....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 .....	
Houston Intcntl (IAH) .....	(DME/DME-IRU or GPS-equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR .....	1000-0300
	or	
	(Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300
	or	
	J616 SRQ Q100 LEV WOLDE (RNAV)-STAR.....	1000-0300
Houston Hobby (HOU).....	(DME/DME-IRU or GPS-equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR.....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) J616 SRQ Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300
	or	
	(Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300
Indianapolis (IND) .....	LAL CTY J91 ATL J89 IIU DECEE-STAR .....	1000-0300
Islip (ISP).....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SARDI CCC .....	
Jacksonville (JAX).....	J53 .....	1030-0300
Kennedy (JFK).....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	1000-0300
	or	
	J53 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR .....	1000-0300
La Guardia (LGA).....	(Water) VALLY PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR.....	1000-0300
	or	
	J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR.....	1000-0300
Lawrence (LWM) .....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or	
	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	

Terminals	Route	Effective Times (UTC)
Louisville (SDF).....	CTY J91 ATL HCH DARBY-STAR .....	1000-0300
Manchester (MHT).....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN.....	
Melbourne (MLB) .....	J53 HEDLY or DRCT.....	1030-0300
Minneapolis (MSP) .....	CTY J91 ATL J89 BAE EAU-STAR .....	1000-0300
Montreal (CYUL).....	VALLY PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR .....	
Nantucket (ACK) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO V46.....	
Nashville (BNA).....	CTY J91 ATL GQO VOLLS-STAR .....	1000-0300
Newark (EWR).....	(Water) VALLY PERMT AR16 ILM J109 FAK DYLIN-STAR .....	
	or J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) VALLY PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR .....	1000-0300
Newburgh (SWF).....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR.....	
New Haven (HVN).....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED.....	
New London/Groton (GON) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO .....	
New Orleans (MSY) .....	LAL J73 SZW J2 .....	1000-0300
	or (Water) J616 SRQ Q100 REDFN Q105 HRV .....	1000-0300
Ocala (OCF).....	J73 LAL or DRCT .....	1030-0300
Orlando (MCO).....	J53 PHK GOOFY-STAR .....	1030-0300
	or (PHK GOOFY-STAR .....	
Overwater Routes to the Northeast .....	(Water-Turbojets) VALLY PERMT AR16 ILM.....	
	or (Water-Turbojets) VALLY WOLFO AR18 DIW .....	
Overwater Routes to the Northwest .....	J616 SRQ Q100 LEV J86 .....	1030-0300
	or J616 SRQ Q100 REDFN Q105 HRV J58.....	1030-0300
Philadelphia (PHL).....	J53 CRG J51 SAV J55 CHS J121 SWL SWL034 RADDs VCN-STAR.....	1000-0300
	or (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL RADDs VCN-STAR .....	1000-0300
Pittsburgh (PIT) .....	J53 CRG J51 CAE PSK EKN IHD NESTO-STAR .....	1000-0300
Port Columbus Intl (CMH).....	BNA IJU GAIL (RNAV)-STAR .....	
Poughkeepsie (POU).....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR.....	
Providence (PVD) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO JORDAN (RNAV)-STAR .....	
Raleigh-Durham (RDU) .....	(Water-Turbojets) VALLY PERMT AR16 ILM BRADE-STAR.....	1000-0300
	or J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR.....	1000-0300
St Louis (STL).....	WINCO CTY J151 VISQA QBALL-STAR .....	1000-0300
	or (/E, /G, /R, /J, /L, /Q) WINCO KPASA Q110 FEONA VUZ J151 VISQA QBALL-STAR .....	
Sarasota/Bradenton (SRQ) .....	J616 .....	1030-0300



Terminals	Route	Effective Times (UTC)
Tallahassee (TLH) .....	J73 .....	
	or	
	LAL .....	1030-0300
Tampa (TPA) .....	J43 BRDGE BRDGE-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) J43 DEAKK	
	DEAKK (RNAV)-STAR .....	1030-0300
Toronto (CYYZ) .....	(Water-Turbojets) VALLY PERMT AR16 ILM J109	
	BUF YOUTH-STAR .....	
Vero Beach (VRB) .....	DRCT .....	1030-0300
	or	
	J53 HEDLY .....	
Washington Dulles (IAD) .....	J53 CRG J51 SAV J207 RDU FAK COATT-STAR ....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) J53 CRG J51	
	SAV J207 RDU FAK BARIN-STAR .....	1000-0300
	or	
	(Water) VALLEY PERMT AR16 ILM J109 FAK	
	COATT-STAR .....	1000-0300
	or	
	(Water-GPS or DME/DME-IRU equipped) VALLY	
	PERMT AR16 ILM J109 FAK BARIN-STAR .....	1000-0300
Washington Natl (DCA) .....	(Turbojets) J53 CRG J51 SAV J55 CHS J165 RIC	
	IRONS-STAR .....	1000-0300
	or	
	(Water-Turbojets) VALLY PERMT AR16 ILM J40	
	RIC IRONS-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) J53 CRG J51	
	SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR .....	1000-0300
	or	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) VALLY PERMT ILM J40 RIC OJAAY	
	(RNAV)-STAR .....	1000-0300
Westhampton (FOK) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 HTO .....	
White Plains (HPN) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 SIE BOUNO-STAR ....	
	or	
	(Water-Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 SIE V139 RICED	
	RICED-STAR .....	
Wilmington (ILM) .....	(Water-Turbojets) VALLY PERMT AR16 .....	
Windsor Locks (BDL) .....	(Water-Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SBY J79 VILLS DPK DPK-STAR .....	
Worcester (ORH) .....	(Water-Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SYB J79 JFK DPK MAD HFD .....	
<b>MOBILE (MOB)</b>		
Houston (HOU) .....	(DME/DME-IRU or GPS-equipped) SJ1 COLUMBIA	
	(RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) SJ1 J50 AEX DAS-STAR.	
Houston (IAH) .....	(DME/DME-IRU or GPS-equipped) SJ1 WOLDE	
	(RNAV)-STAR	
	or	
	(Non-advanced NAV only) SJ1 J50 AEX DAS-STAR.	
<b>MYRTLE BEACH (MYR)</b>		
Detroit/ Wayne (DTW) .....	BKW GEMNI-STAR .....	
<b>NASHVILLE</b>		
Baltimore (BWI) .....	J42 BKW J147 CSN OTT-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J42 BKW J147	
	CSN OTT-STAR .....	
Boca Raton (BCT) .....	(GPS or DME/DME-IRU equipped) MGM SZW	
	PRRIE (RNAV)-STAR .....	

Terminals	Route	Effective Times (UTC)
Boston (BOS).....	J46 VXV SPA SPA100 J209 RDU J207 FKN J79	
Chicago/Midway (MDW) .....	JFK ORW-STAR .....	
	(/E/G/R/J/L/Q only) IIU OKK FISSK	
	(RNAV)-STAR .....	0000-2359
	or	
	(non-advanced RNAV only) IIU OKK V285 CLEFT	
	OXI CGT .....	0000-2359
Chicago O'Hare (ORD).....	(/E/G/R/J/L/Q only) IIU HEVAN MZZ ROYKO	
	(RNAV)-STAR .....	0000-2359
	or	
	(non-advanced RNAV only) IIU HEVAN MZZ	
	MZZ344/33 OXI KNOX-STAR.....	0000-2359
	or	
	IIU MZZ OXI KNOX-STAR .....	
Cincinnati (CVG).....	BWG V49 ABB V47 CVG .....	
Cleveland (CLE) .....	IIU ABERZ-STAR.....	
Columbus (CMH) .....	LVT V493 YRK YRK035 APE168 NIKLS .....	
Denver (DEN).....	FAM J112 BUM J110 GCK J154 RYLIE	
	DANDD-STAR .....	
Detroit/Wayne (DTW).....	(RNAV only) IMPEL VHP FWA MIZAR-STAR .....	
	or	
	CCT VHP FWA MIZAR-STAR.....	
Fort Lauderdale (FLL) .....	(all others) J39 MGM SZW J41 PIE FORTL-STAR ..	
Fort Myers (FMY, RSW).....	(Turbojets-GPS or DME/DME-IRU equipped) J39	
	MGM J41 SZW SSCOT (RNAV)-STAR.....	1100-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) LIT J180 SWB	
	ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR.....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) LIT	
	J180 SWB TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR.....	
Indianapolis (IND) .....	J39 IIU DECEE-STAR .....	
Kennedy (JFK) .....	J46 VXV SPA SPA100 J209 ORF J121 SIE	
	CAMRN-STAR .....	
La Guardia (LGA) .....	J42 GVE KORRY-STAR .....	
Miami (MIA) .....	(all others) J39 MGM SZW J41 PIE CYY-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) J39	
	MGM SZW SSCOT (RNAV)-STAR .....	
Minneapolis (MSP) .....	IIU J89 BAE EAU-STAR.....	
Newark (EWR) .....	SPA J14 J51 FAK DYLIN-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) SPA J14 J51	
	FAK PHLBO (RNAV)-STAR .....	1100-0400
Orlando (MCO, ORL) .....	J39 MGM SZW J43 PIE LAL .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) J39 MGM SZW	
	J43 PIE COSTR (RNAV)-STAR.....	1100-0400
Philadelphia (PHL).....	J42 OTT DPNT-STAR.....	
Pittsburgh (PIT) .....	IIU HNN WISKE-STAR .....	
St. Louis (STL) .....	QBALL-STAR .....	
Toronto (CYYZ).....	J39 ROD J43 CRL J586 YXU V98 YWT V216 .....	
Washington Dulles (IAD).....	J42 BKW ROYIL-STAR.....	
	or	
	J42 BKW SHNON (RNAV)-STAR .....	
Washington Natl (DCA).....	J42 BKW WZRRD-STAR.....	
	or	
	(GPS or DME/DME-IRU equipped) J42 BKW	
	ELDEE (RNAV)-STAR .....	
West Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped)	
	MGM SZW WLACE (RNAV)-STAR.....	

Terminals	Route	Effective Times (UTC)
Windsor Locks (BDL).....	J46 VXV SPA SPA100 J209 RDU J207 FKN J79	
	JFK DPK DPK-STAR .....	
<b>ORLANDO METRO AREA</b>		
<b>(MCO, ORL, ISM, LEE, SFB)</b>		
Baltimore (BWI) .....	(Water-Turbojets-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J40 RIC RAVNN (RNAV)-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR .....	1100-0400
Detroit/Wayne (DTW) .....	JAGUAR-DP IRQ J53 SPA HNN WEEDA-STAR .....	
Fort Pierce (FPR) .....	VRB .....	1030-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) PIE REMIS Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) SZW J2 SJI COLUMBIA (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) PIE REMIS Q100 LEV WOLDE (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) SZW J2 SJI WOLDE (RNAV)-STAR .....	
	or (Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300
Key West (EYW) .....	RSW J41 .....	1030-0300
Overwater Routes to the Northeast .....	(Water-Turbojets) MLB LENDS AR16 ILM .....	
	or (Water-Turbojets) MLB ETECK AR18 DIW .....	
Wilmington (ILM) .....	(Water-Turbojets) MLB LENDS AR16 .....	
From ORLANDO EXECUTIVE (ORL) only		
Albany (ALB) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130 .....	
Atlanta (ATL) .....	J53 CRG DBN SINCA-STAR .....	
	or (RNAV only) J53 CRG DBN CANUK RNAV-STAR .....	
Baltimore (BWI) .....	(Water-Turbojets) MLB LENDS AR16 ILM J40 RIC OTT-STAR .....	1100-0400
	or J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR .....	1100-0400
Bedford (BED) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Beverly (BVY) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Bridgeport (BDR) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
Charlotte (CLT) .....	J53 CRG J51 SAV J207 FLO CTF-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) J53 CRG J51 SAV HUSTN (RNAV)-STAR .....	
Cincinnati (CVG) .....	(RNAV only) J53 CRG J45 ATL J43 VXV JAKIE (RNAV)-STAR .....	

Terminals	Route	Effective Times (UTC)
	or	
	(all others) J53 CRG J45 ATL J43 VXV	
	HARDU-STAR .....	
Cleveland (CLE).....	J53 SPA J85 TVT040 KEATN KEATN-STAR .....	
Columbus (CMH) .....	J53 SPA J85 HVQ HNN BREMN-STAR .....	
Dallas/Ft. Worth (DFW) .....	PIE REMIS Q100 REDFN Q105 HRV J58 AEX CQY .	
Danbury (DXR) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 SIE V139 RICED	
	RICED-STAR .....	
Denver (DEN) .....	CTY SZW J41 MEM RZC PER GCK J154 RYLIE	
	DANDD-STAR .....	
Detroit/Wayne (DTW) .....	VXV J91 HNN WEEDA-STAR .....	
Detroit Satellites:		
Detroit (DET), Windsor (CYQG), Pontiac (PTK), Willow Run (YIP), Ann Arbor (ARB) .....	J53 CRG J45 ATL J91 VXV J43 FLM DQN	
	CRUX-STAR .....	1100-0400
	or	
East Hampton (HTO).....	J53 IRQ J85 DJB LLEEO-STAR .....	
	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 HTO .....	
Farmingdale (FRG).....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 SIE CAMRN-STAR .....	
Hartford (HFD) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
	SBY J79 JFK DPK MAD V1 .....	
Indianapolis (IND) .....	J53 CRG J45 ATL J89 IJU DECEE-STAR .....	
Islip (ISP) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 SARDI CCC .....	
Kennedy (JFK) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 SIE CAMRN-STAR .....	0700-0000
	or	
La Guardia (LGA) .....	J53 CRG J51 SAV J55 CHS J121 SIE	
	CAMRN-STAR .....	
	(Water-Turbojets) MLB LENDS AR16 ILM J40 TYI	
	HPW J191 PXT KORRY-STAR .....	1100-0300
	or	
Lawrence (LWM) .....	J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT	
	KORRY-STAR .....	1100-0300
	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
	SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or	
	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Louisville (SDF) .....	CTY J91 ATL HCH DARBY-STAR .....	
Manchester (MHT) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
	SBY J79 JFK ALB EEN .....	
Minneapolis (MSP) .....	CTY J91 ATL J89 BAE EAU-STAR .....	1100-0400
Montreal (CYUL) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
	SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR .....	
Nantucket (ACK) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J174 HTO V46 .....	
Nashville (BNA) .....	CTY J91 ATL VOLLS-STAR .....	1100-0400
Newark (EWR) .....	(GPS or DME/DME-IRU equipped-WATER) MLB	
	LEND S AR16 ILM J109 FAK PHLBO	
	(RNAV)-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) J53 CRG J51	
	SAV J207 FLO J55 J51 FAK PHLBO	
	(RNAV)-STAR .....	1100-0400
Newburgh (SWF) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
	SBY J79 JFK DPK HUDSON-STAR .....	
New Haven (HVN) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 SIE V139 RICED MAD193	
	KEYED .....	
New London (GON) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 HTO .....	

Terminals	Route	Effective Times (UTC)
Philadelphia (PHL) .....	(Water-Turbojets) J53 CRG J55 CHS J121 SWL SWLO34 RADD5 VCN-STAR .....	1100-0400
Pittsburgh (PIT) .....	CRG J51 CAE PSK EKN IHD NESTO-STAR .....	1100-0400
Poughkeepsie (POU) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR .....	
Providence (PVD) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR .....	
Springfield (CEF) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
St. Louis (STL) .....	CTY SZW J41 VUZ J151 VISQA QBALL-STAR .....	1100-0400
Toronto (CYYZ) .....	(Water-Turbojets) MLB LENDS AR16 ILM J109 BUF YOUTH-STAR .....	
Washington Natl (DCA) .....	(Water-Turbojets-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J40 RIC OJAAY (RNAV)-STAR .....	
	or	
	(Water-Turbojets) MLB LENDS AR16 ILM J40 RIC IRONS-STAR .....	
Washington Dulles (IAD) .....	(Water-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J109 FAK BARLIN -STAR .....	
	or	
	(Water) MLB LENDS AR16 ILM J109 FAK COATT-STAR .....	
Westfield (BAF) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
Westhampton Beach (FOK) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO .....	
White Plains (HPN) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR .....	
	or	
	(Water-Turboprops) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR .....	
Windsor Locks (BDL) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
Worcester (ORH) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD .....	
From ORLANDO INTL (MCO) only		
Atlanta (ATL) .....	MCOY-DP AMG SINCA-STAR .....	1100-0400
	or	
	(RNAV only) JAGUAR-DP DBN CANUK (RNAV)-STAR .....	1100-0400
Baltimore (BWI) .....	MCOY-DP SAV J55 CHS J79 TYI J40 RIC OTT-STAR .....	1100-0400
	or	
	(Water-Turbojets) MLB LENDS AR16 ILM J40 RIC OTT-STAR .....	
Bedford (BED) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or	
	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Beverly (BVY) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or	
	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Boston (BOS) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK ORW-STAR .....	1100-0300
	or	
	MCOY-DP SAV J55 CHS J79 JFK ORW-STAR .....	1100-0300
Bridgeport (BDR) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	

Terminals	Route	Effective Times (UTC)
Charlotte (CLT).....	MCOY-DP SAV J207 FLO CTF-STAR..... or (Turbojets-GPS or DME/DME-IRU equipped) MCOY-DP SAV HUSTN (RNAV)-STAR.....	
Chicago Midway (MDW).....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR.....	1100-0400
	or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT .....	1100-0400
Chicago O'Hare (ORD).....	(/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR.....	1100-0400
	or (non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR.....	1100-0400
Cincinnati (CVG).....	(RNAV only) MCCOY-DP AMG J45 ATL J43 VXV JAKIE (RNAV)-STAR .....	
	or (all others) MCOY-DP AMG J45 ATL J43 VXV HARDU-STAR .....	1100-0400
Columbus (CMH) .....	MCOY-DP IRQ J53 SPA J85 HVQ HNN BREMN-STAR.....	1100-0400
Danbury (DXR) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR.....	
Detroit/Wayne (DTW) .....	JAGUAR-DP IRQ J53 SPA HNN WEEDA-STAR .....	
Detroit Satellites: Detroit (DET), Windsor (CYQG), Pontiac (PTK), Willow Run (YIP), Ann Arbor (ARB) .....	JAGUAR-DP IRQ J85 DJB LLEEO-STAR .....	
Fort Myers (FMY, RSW) .....	LBV .....	
Hartford (HFD) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 .....	
Indianapolis (IND) .....	CTY J91 ATL J89 IIU DECEE-STAR.....	1100-0400
Islip (ISP) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SARDI CCC .....	
Kennedy (JFK).....	(Water) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	
	or MCOY-DP SAV J55 CHS J121 SIE CAMRN-STAR ..	
La Guardia (LGA) .....	MCOY-DP SAV J207 RDU J55 HPW J191 PXT ENO-STAR .....	1100-0300
	or (Water-Turbojets) MLB LENDS AR16 ILM J40 TYI HPW J191 PXT ENO-STAR .....	
Lawrence (LWM).....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR.....	
	or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Louisville (SDF).....	CTY J91 ATL HCH DARBY-STAR .....	1100-0400
Minneapolis (MSP) .....	(all others) CTY VUZ ALO KASPR-STAR..... or (/E, /G, /R, /J, /L, /Q) WEBSS BRUTS Q110 FEONA VUZ ALO KASPR-STAR.....	
Montreal (CYUL).....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR.....	
Nantucket (ACK).....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO V46.....	
Nashville (BNA) .....	CTY J91 ATL VOLLs-STAR .....	1100-0400

Terminals	Route	Effective Times (UTC)
Newark (EWR) .....	(Water-Turbojets) MLB LENDS AR16 ILM J109 FAK DYLIN-STAR..... or MCOY-DP SAV J207 FLO J55 J51 FAK DYLIN-STAR .....	1100-0400
	or J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR .....	1100-0400
	(Turbojets-WATER) MLB LENDS AR16 ILM J109 FAK DYLIN-STAR..... or (GPS or DME/DME-IRU equipped) MCCOY SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped-WATER) MLB LEND S AR16 ILM J109 FAK PHLBO (RNAV)-STAR .....	1100-0400
Newburgh (SWF) .....	(Water-Turbojets)-MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR.....	
New Haven (HVN) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
New London (GON) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO .....	
Philadelphia (PHL) .....	(Turbojets) MCOY-DP SAV J55 CHS J121 SWL SWL034 RADD S VCN-STAR .....	1100-0400
	or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL RADD S VCN-STAR .....	
Pittsburgh (PIT) .....	MCOY-DP SAV J51 CAE PSK EKN IHD NESTO-STAR .....	1100-0400
Poughkeepsie (POU) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR.....	
Providence (PVD) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR .....	
Springfield (CEF) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
St. Louis (STL) .....	CTY J151 VISQA QBALL-STAR..... or (/E, /G, /R, /J, /L, /Q) WEBBS BRUTS Q110 FEONA VUZ J151 VISQA QBALL-STAR .....	
Toronto (CYYZ) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK CFB J95 BUF YOUTH-STAR .....	
Washington Dulles (IAD) .....	MCOY-DP SAV J55 CHS J165 J109 FAK COATT-STAR .....	1100-0300
Westfield (BAF) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
West Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped) DEARY VRB FRWAY (RNAV)-STAR .....	
	or DEARY VRB TUXXI-STAR .....	
<b>PALM BEACH METRO AREA (PBI, BCT, LNA, UTX, SUA)</b>		
Albany (ALB) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130 .....	
Atlanta (ATL) .....	(RNAV only) ORL J81 CHESN CANUK (RNAV)-STAR..... or ORL J81 CHESN SINCA-STAR .....	1100-0300
Baltimore (BWI) .....	(Water-Turbojets) A699 PERMT AR16 ILM J40 RIC OTT-STAR .....	1100-0300
	or	





Terminals	Route	Effective Times (UTC)
East Hampton (HTO) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO .....	
Farmingdale (FRG) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	
Fort Myers (RSW) .....	RSW .....	1030-0300
Groton (GON) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO .....	
Hartford (HFD) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300
Indianapolis (IND) .....	CTY J91 ATL J89 ILL DECEE-STAR .....	1100-0300
Islip (ISP) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SARDI CCC .....	
Jacksonville (JAX) .....	ORL J53 .....	1030-0300
Kennedy (JFK) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE J121 SIE CAMRN-STAR .....	1100-0300
	or ORL J53 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR .....	1000-0300
La Guardia (LGA) .....	(Water-Turbojets) A699 PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR .....	
	or ORL J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR .....	1100-0400
Lawrence (LWM) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or (Water-ALT-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Louisville (LOU) .....	CTY J91 ATL HCH DARBY-STAR .....	1100-0300
Manchester (MHT) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN .....	
Minneapolis (MSP) .....	CTY J91 ATL J89 BAE EAU-STAR .....	1100-0300
Montreal (CYUL) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR .....	
Nashville (BNA) .....	CTY J91 ATL GQO VOLLS-STAR .....	1100-0300
Nantucket (ACK) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO V46 .....	
Newark (EWR) .....	(Water-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR .....	
	or ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR .....	1100-0300
	or (WATER) A699 PERMT AR16 ILM J109 FAK DYLIN-STAR .....	
	or	

Terminals	Route	Effective Times (UTC)
	(GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR .....	1100-0300
Newburgh (SWF) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR .....	
New Haven (HVN) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
Ocala (OCF) .....	LAL .....	1030-0300
Orlando (MCO) .....	BAIRN GOOFY-STAR .....	1030-0300
Overwater Routes to the Northeast .....	(Water) A699 PERMT AR16 ILM or WOLFO AR18 DIW .....	1030-0300
Philadelphia (PHL) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL RADDs VCN-STAR .....	
	or ORL J53 CRG J51 SAV J55 CHS J121 SWL SWL034 RADDs VCN-STAR .....	1100-0300
Pittsburgh (PIT) .....	ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR .....	
Poughkeepsie (POU) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR .....	
Providence (PVD) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR .....	
Raleigh/Durham (RDU) .....	(Water-Turbojets) A699 PERMT AR16 ILM BRADE-STAR .....	
	or ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR .....	1100-0400
St. Louis (STL) .....	TBIRD CTY J151 VISQA QBALL-STAR .....	
	or (/E,/G,/R,/J,/L,/O) TBIRD KPASA Q110 FEONA VUZ J151 VISQA QBALL-STAR .....	
Springfield (CEF) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
Tallahassee (TLH) .....	LAL .....	1030-0300
Tampa (TPA) .....	LBV BRDGE-STAR .....	1030-0300
	or BRDGE BRDGE-STAR .....	1030-0300
	or (GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR .....	1030-0300
Toronto (CYYZ) .....	(Water-Turbojets) A699 PERMT AR16 ILM J109 BUF YOUTH-STAR .....	
Washington Dulles (IAD) .....	(Water-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J109 FAK BARIN-STAR .....	
	or (Water) A699 PERMT AR16 ILM J109 FAK COATT-STAR .....	
	or (GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV J207 RDU FAK BARIN-STAR .....	
	or ORL J53 CRG J51 SAV J207 RDU FAK COATT-STAR .....	
Washington Natl (DCA) .....	(Water) A699 PERMT AR16 ILM J40 RIC IRONS-STAR .....	
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J40 RIC OJAAY (RNAV)-STAR .....	
Westfield (BAF) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	

Terminals	Route	Effective Times (UTC)
Westhampton Beach (FOK) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO .....	
White Plains (HPN) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR .....	
	or (Water-Turboprops) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR .....	
Wilmington (ILM) .....	(Water-Turbojets) A699 PERMT AR16 .....	
Windsor Locks (BDL) .....	(Water-Turbojets) PERMT A699 AR16 ILM KEMPR SBY J179 VILLS DPK DPK-STAR .....	
Worcester (ORH) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD .....	
<b>PENSACOLA (PNS)</b>		
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) MGM RESPE GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	0000-2359
	or (non-advanced RNAV only) MGM RESPE GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	0000-2359
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) ROMMY HRV COLUMBIA (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) SJI AEX DAS-STAR .....	1000-0300
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) ROMMY HRV WOLDE (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) SJI AEX DAS-STAR .....	1000-0300
<b>PORT AU PRINCE (MTPP)</b>		
Atlanta (ATL) .....	(if unable FL370 by CVIKK) JOSES A315 ZIN FLL ORL CRG SINCA-STAR .....	
	or ALBBE A636 ZIN FLL ORL CRG CANUK (RNAV)-STAR .....	
	or (if unable FL370 by CVIKK) ALBBE A636 ZIN FLL ORL CRG SINCA-STAR .....	
	or (if unable FL370 by CVIKK) JOSES A315 ZIN FLL ORL CRG CANUK (RNAV)-STAR .....	
Kennedy (JFK) .....	BOTES G444 GTK M594 CERDA LUCTI L454 OWENZ CAMRN .....	
	or BOTES G444 GTK M594 CERDA L453 AZEZU BERGH L454 OWENZ CAMRN .....	
	or BOTES G444 GTK L452 OXANA AR8 ECG ORF J121 SIE CAMRN-STAR .....	
	or JOSES A315 ZIN A756 DUKKY A555 ZQA AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	
Newark (EWR) .....	ALBBE M594 CERDA LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO .....	
	or ALBBE M594 GTK L452 OXANA AR8 ECG FAK DYLIN-STAR .....	
	or ALBBE M594 GTK L452 OXANA AR8 ECG FAK PHLBO (RNAV)-STAR .....	
<b>RALEIGH-DURHAM (RDU)</b>		
Albany (ALB) .....	TYI J79 SBY J79 JOANI LGA LGA055 V487 V130..	1100-0400
Atlanta (ATL) .....	PACKK-DP AZELL CAE J4 IRQ SINCA-STAR .....	1100-0400
	or	

Terminals	Route	Effective Times (UTC)
	(RNAV only) PACKK-DP AZELL CAE J4 IRQ CANUK RNAV-STAR.....	1100-0400
Boston (BOS).....	TYI J79 JFK ORW-STAR.....	
Chicago Midway (MDW).....	PACKK-DP AZELL PSK HVQ FWA GOSHEN-STAR ..	1100-0400
Chicago O'Hare (ORD).....	(/E/G/R/J/L/Q only) PACKK-DP AZELL HMV FLM HEVAN MZZ ROYKO (RNAV)-STAR .....	1100-0400
	or	
	(non-advanced RNAV only) PACKK-DP AZELL HMV FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR .	1100-0400
Cincinnati (CVG).....	(RNAV only) HMV JAKIE (RNAV)-STAR.....	
	or	
	(all others) HMV HARDU-STAR .....	
Columbia (CAE) .....	FAY-DP FAY FLO .....	1100-0400
Dallas/Ft Worth (DFW)	PACKK-DP AZELL SPA J14 VUZ J52 SQS CQY .....	1100-0400
Detroit/Wayne (DTW) .....	AZELL PSK BKW GEMNI-STAR .....	
Fort Lauderdale (FLL) .....	(Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CHS J79 OMN FISEL (RNAV)-STAR .....	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB BAHAA AR21 CRANS FISEL (RNAV)-STAR .....	
	or	
	(Turbojets) TARL-DP CHS J79 OMN GISSH-STAR .	
	or	
	(Water-Turbojets) TARL-DP CLB BAHAA AR21 CRANS HIILL FATHR GISSH-STAR.....	
	or	
	(Turboprops) TARL-DP CHS J79 OMN MLB BLUFI-STAR .....	
	or	
	(Water-Turboprops-GPS or DME/DME-IRU equipped) TARL-DP CLB BAHAA AR21 CRANS FISEL (RNAV)-STAR .....	
	or	
	(Water-Turboprops) TARL-DP CLB BAHAA AR21 CRANS HIILL FATHR GISSH-STAR.....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) VUZ JAN AEX ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) VUZ JAN AEX DAS-STAR.....	
Houston (IAH).....	(Turbojets-GPS or DME/DME-IRU equipped) VUZ JAN AEX TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) VUZ JAN AEX DAS-STAR.....	
Kennedy (JFK).....	TYI ORF J121 SIE CAMRN-STAR.....	1100-0400
La Guardia (LGA) .....	LVL HPW J191 PXT KORRY-STAR .....	
Miami (MIA).....	(Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CHS J79 OMN HILEY (RNAV)-STAR ....	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB SEELO AR22 JORAY HILEY (RNAV)-STAR.....	
	or	
	(Turbojets) TARL-DP CHS J79 OMN ANNEY-STAR.	
	or	
	(Water-Turbojets) TARL-DP CLB SEELO AR22 JORAY OSOGY ENVOY YOSI MILSY BOYUR HILEY KAINS.....	
	or	
	(Turboprops) TARL-DP CHS J79 OMN ANNEY-STAR .....	
Newark (EWR).....	LVL FAK DYLIN-STAR.....	1100-0300
	or	

Terminals	Route	Effective Times (UTC)
	(GPS or DME/DME-IRU equipped) LVL FAK PHLBO (RNAV)-STAR .....	1100-0300
Newburgh (SWF) .....	TYI J79 JFK BDR V91 STUBY .....	1100-0300
Orlando (MCO) .....	(Turbojets) TARL-DP CHS J79 OMN BITHO-STAR.. or (GPS or DME/DME-IRU equipped) TARHEEL-DP CHS J79 OMN CWRLD (RNAV)-STAR .....	1100-0400
Orlando (ORL) .....	(Turbojets) TARL-DP CHS J79 OMN CORLL-STAR .	1100-0400
Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CHS J79 OMN FRWAY (RNAV)-STAR ... or (Turbojets) TARL-DP CHS J79 OMN TUXXI-STAR .. or (Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB SEELO AR19 AYBID CAYSL (RNAV)-STAR .....	
	or (Water-Turbojets) TARL-DP CLB SEELO AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL ....	1100-0400
Philadelphia (PHL) .....	V3 FAK DPNT-STAR .....	1100-0400
Pittsburgh (PIT) .....	PACK-DP ROA EKN IHD NESTO-STAR .....	1100-0400
Sarasota (SRQ) .....	FAY-DP FAY CAE J75 TAY J85 GNV LAL .....	1100-0400
Savannah (SAV) .....	TARL-DP CHS .....	1100-0400
Tampa (TPA) .....	FAY-DP FAY CAE J75 TAY LZARD-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) FAY-DP FAY CAE J75 TAY DADES (RNAV)-STAR .....	1100-0400
Windsor Locks (BDL) .....	TYI J79 SBY J79 JFK DPK-STAR .....	1100-0400
<b>SAN JUAN (TJSJ)</b>		
Atlanta (ATL) .....	HARDE A555 ZQA FLL ORL CRG CANUK (RNAV)-STAR .....	
	or HARDE A555 ZQA FLL ORL CRG SINCA-STAR .....	
	or CONCH R507 .....	
Atlantic City (ACY) .....	ELMUC L451 LETON L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE .....	
Baltimore (BWI) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC NOTTINGHAM-STAR .....	
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC RAVNN (RNAV)-STAR .....	
	or ELMUC L451 OLDEY AR3 CLB ILM J40 RIC NOTTINGHAM-STAR .....	
	or ELMUC L451 OLDEY AR3 CLB ILM J40 RIC RAVNN (RNAV)-STAR .....	
Bedford (BED) .....	ELMUC L454 LUCTI OWENZ HTO ORW GRAYM-STAR .....	
	or ELMUC L451 CERDA L453 AZEZU BERGH OWENZ HTO ORW GRAYM-STAR .....	
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	or ELMUC L451 LETON L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Charlotte (CLT) .....	ELMUC L451 OLDEY CHS CHESTERFIELD-STAR ... or ELMUC L451 OLDEY CHS HUSTN (RNAV)-STAR....	

Terminals	Route
Cincinnati (CVG).....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG VXV JAKIE (RNAV)-STAR .....
	or
	ELMUC L451 OLDEY METTA CHS SPA CAE VXV JAKIE (RNAV)-STAR .....
Cleveland (CLE) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HVQ TVT KEATN-STAR .....
	or
	ELMUC L451 OLDEY METTA CHS CAE HVQ TVT KEATN-STAR .....
Dayton (DAY) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG VXV J43 FLM KEKEE-STAR .....
	or
	ELMUC L451 OLDEY METTA CHS CAE VXV J43 FLM KEKEE-STAR .....
Detroit (DTW).....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HNN WEEDA-STAR .....
	or
	ELMUC L451 OLDEY METTA CHS SPA HNN WEEDA-STAR .....
Indianapolis (IND) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG IIU V51 DECEE DECEE-STAR.....
	or
	ELMUC L451 OLDEY METTA CHS SPA CAE VXV J89 IIU V51 DECEE DECEE-STAR .....
Kennedy (JFK).....	ELMUC L454 LUCTI L454 OWENZ CAMRN .....
	or
	ELMUC L453 LAMER L453 AZEJU BERGH L454 OWENZ CAMRN .....
	or
	ELMUC L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....
Louisville (SDF).....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HCH DARBY-STAR .....
	or
	ELMUC L451 OLDEY METTA CHS SPA HCH DARBY-STAR .....
Newark (EWR).....	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK DYLIN-STAR .....
	or
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK PHLBO (RNAV)-STAR .....
	or
	ELMUC L454 LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO.....
	or
	ELMUC L451 CERDA L453 AZEJU BERGH L454 OWENZ CYN GXU RBV V249 METRO .....
Ottawa (CYOW) .....	ELMUC L454 LUCTI L454 JFK SYR J599 .....
	or
	ELMUC L451 CERDA L453 AZEJU BERGH L454 JFK SYR J599 .....
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SYR J599 .....
	or
	ELMUC L451 OLDEY AR3 CLB ILM SYR J599 .....
Providence (PVD) .....	ELMUC L454 LUCTI L454 BERGH OWENZ HTO JORDN .....
	or
	ELMUC L451 CERDA L453 AZEJU BERGH OWENZ HTO JORDN .....
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SWL J174 HTO JORDN .....
	or

Effective  
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(UTC)

Terminals	Route
Quebec (CYQB) .....	ELMUC L451 OLDEY AR3 PANAL DIW SWL J174 HTO JORDN .....
	ELMUC L454 LUCTI L454 JFK PLB J560 .....
	or
	ELMUC L451 CERDA L453 AZEZU BERGH L454 JFK PLB J560 .....
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG ORF SBY J209 VILLS SAX J6 PLB J560 .....
	or
	ELMUC L451 OLDEY AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560 .....
	ELMUC L451 OLDEY ILM BRADE-STAR .....
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)-STAR .....
Raleigh-Durham (RDU) ..... Teterboro (TEB) .....	or
	ELMUC L451 CERDA L453 AZEZU BERGH L454 OWENZ .....
	or
	ELMUC L454 LUCTI L454 OWENZ .....
	or
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR .....
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC IRONS-STAR .....
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC OJAAY (RNAV)-STAR .....
	or
Washington (DCA) .....	ELMUC L451 OLDEY AR3 CLB ILM J40 RIC IRONS-STAR .....
	or
	ELMUC L451 OLDEY AR3 CLB ILM J40 RIC OJAAY (RNAV)-STAR .....
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK BARIN (RNAV)-STAR .....
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK COATT-STAR .....
	or
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK BARIN (RNAV)-STAR .....
	or
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK COATT-STAR .....
Washington (IAD) .....	ELMUC L454 LUCTI L454 OWENZ .....
	or
	ELMUC L451 CERDA L453 AZEZU BERGH L454 OWENZ .....
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG ORF J121 SIE BOUNO-STAR .....
	or
	ELMUC L451 OLDEY ECG ORF J121 SIE BOUNO-STAR .....
	ELMUC L454 LUCTI L454 JFK DBK DEER PARK-STAR .....
	or
	ELMUC L451 LETON L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK DPK DEER PARK-STAR .....
White Plains (HPN) .....	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK DPK DEER PARK-STAR .....
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG IJU J99 BAE MSP .....
	or
Winsor Locks (BDL) .....	
Winnipeg (CYWG) .....	

Terminals	Route
	ELMUC L451 OLDEY METTA CHS VXV J89 IJU J99 BAE MSP.....
<b>SANTO DOMINGO (MDSO)</b>	
Atlantic City (ACY) .....	BESAS L464 CERDA L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J121 SIE .....
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL J121 SIE .....
	or
	JUELE L463 NUCAR AR3 CLB DIW WETRO CEBEE SWL J121 SIE.....
Baltimore (BWI) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC NOTTINGHAM-STAR .....
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC RAVNN (RNAV)-STAR.....
	or
	BESAS L464 CERDA L451 OLDEY AR3 CBL ILM J40 RIC NOTTINGHAM-STAR.....
	or
	BESAS L464 CERDA L451 OLDEY AR3 CBL ILM J40 RIC RAVNN (RNAV)-STAR .....
	or
	JUELE L463 NUCAR AR3 CLB ILM J40 RIC NOTTINGHAM-STAR .....
	or
	JUELE L463 NUCAR AR3 CLB ILM J40 RIC RAVNN (RNAV)-STAR .....
Bangor (BGR).....	BESAS L464 CERDA LUCTI L454 BERGH HTO LRV J79 .....
	or
	BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO LRV J79.....
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK HTO LRV .....
Bedford (BED).....	BESAS L464 CERDA L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....
	or
	BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO ORW GRAYM-STAR .....
	or
	BESAS L464 CERDA LUCTI L454 BERGH OWENZ HTO ORW GRAYM-STAR .....
	or
	JUELE L463 NUCAR AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....
Boston (BOS) .....	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK NORWICH-STAR .....
	or
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM KEMPR SBY J49 JFK INNDY (RNAV)-STAR .....
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK INNDY (RNAV)-STAR.....
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK NORWICH-STAR .....
	or



Effective  
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Terminals	Route
	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK NORWICH-STAR .....
	or
	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK INNDY (RNAV)-STAR .....
	or
	JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY J79 JFK NORWICH-STAR .....
Charlotte (CLT) .....	BESAS L464 CERDA L451 OLDEY CHS CHESTERFIELD-STAR .....
	or
	BESAS L464 CERDA L451 OLDEY CHS HUSTN (RNAV)-STAR .....
	or
	JUELE L463 NUCAR AR3 OLDEY CHS CHESTERFIELD-STAR .....
	or
	JUELE L463 NUCAR AR3 OLDEY CHS HUSTN (RNAV)-STAR .....
Chicago O'Hare (ORD) .....	JUELE L463 NUCAR AR3 OLDEY AR4 CH SPA HMV FLM J24 BIGXX ROYKO (RNAV)-STAR .....
Cincinnati (CVG) .....	BESAS L464 CERDA L451 OLDEY METTA CHS SPA HMV JAKIE (RNAV)-STAR .....
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK J24 HVQ HNN JAVIT-STAR .....
	or
	JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA HMV JAKIE (RNAV)-STAR .....
Cleveland (CLE) .....	BESAS L464 CERDA L451 OLDEY METTA CHS CAE HVQ TVT KEATN-STAR .....
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HVQ TVT KEATN-STAR .....
	or
	JUELE L463 NUCAR AR3 OLDEY METTA CHS CAE HVQ TVT KEATN-STAR .....
Dayton (DAY) .....	BESAS L464 CERDA L451 OLDEY METTA CHS CAE SPA HMV FLM KEKEE-STAR .....
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK J24 HVQ HNN .....
	or
	JUELE L463 NUCAR AR3 OLDEY METTA CHS CAE SPA HMV FLM KEKEE-STAR .....
Detroit (DTW) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HNN WEEDA-STAR .....
	or
	BESAS L464 CERDA L451 OLDEY METTA CHS SPA HNN WEEDA-STAR .....
	or
	JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA HNN WEEDA-STAR .....
Indianapolis (IND) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG IIU V51 DECEE DECEE-STAR .....
	or
	BESAS L464 CERDA L451 OLDEY METTA CHS SPA CAE VXV J89 IIU V51 DECEE DECEE-STAR .
	or
	JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA CAE VXV J89 IIU V51 DECEE DECEE-STAR .....
Kennedy (JFK) .....	BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ CAMRN .....
	or

Terminals	Route
La Guardia (LGA) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG ORF J121 SIE CAMRN-STAR .....
	or
	BESAS L464 CERDA LUCTI L454 OWENZ CAMRN .
	or
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....
	or
	JUELE L463 NUCAR AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....
	BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ CAMRN .....
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HPW J191 PXT KORRY-STAR .....
	or
	BESAS L464 CERDA LUCTI L454 OWENZ CAMRN .
Louisville (SDF) .....	or
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J40 TYI HPW J191 PXT KORRY-STAR .....
	or
	JUELE L463 NUCAR AR3 CLB ILM J40 TYI HPW J191 PXT KORRY-STAR .....
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HCH DARBY-STAR .....
	or
	BESAS L464 CERDA L451 OLDEY METTA CHS SPA HCH DARBY-STAR .....
	or
	JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA HCH DARBY-STAR .....
	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK J37 ALB J6 PLB PLATTSBURGH-STAR .....
	or
	JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY J79 JFK J37 ALB J6 PLB PLATTSBURGH-STAR ..
Morristown (MMU) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)-STAR .....
	or
	BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ .....
	or
	BESAS L464 CERDA LUCTI L454 OWENZ .....
	or
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR .....
	or
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR .....
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK DYLIN-STAR .....
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK PHLBO (RNAV)-STAR .....
Newark (EWR) .....	or
	BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ CYN GXU RBV V249 METRO .....
	or
	BESAS L464 CERDA LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO .....
	or
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK DYLIN-STAR .....
	or

Effective  
Times  
(UTC)

Terminals	Route
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK PHLBO (RNAV)-STAR .....
	or
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK DYLIN-STAR .....
	or
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK PHLBO (RNAV)-STAR .....
Ottawa (CYOW) .....	BESAS L464 CERDA LUCTI L454 JFK SYR J599 ...
	or
	BESAS L464 LAMER L453 AZEQU BERGH L454 JFK SYR J599 .....
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SYR J599 .....
	or
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM SYR J599 .....
	or
	JUELE L463 NUCAR AR3 CLB ILM SYR J599 .....
Philadelphia (PHL) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL RADDs CEDAR LAKE-STAR .....
	or
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL RADDs CEDAR LAKE-STAR .....
	or
	BESAS L464 LAMER L453 AZEQU B24 SIE .....
Providence (PVD) .....	BESAS L464 CERDA LUCTI L454 BERGH OWENZ HTO JORDN .....
	or
	BESAS L464 LAMER L453 AZEQU BERGH OWENZ HTO JORDN .....
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL J174 HTO JORDN .....
	or
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW SWL J174 HTO JORDN .....
	or
	JUELE L463 NUCAR AR3 PANAL DIW SWL J174 HTO JORDN .....
Quebec (CYQB) .....	BESAS L464 CERDA LUCTI L454 JFK PLB J560 ....
	or
	BESAS L464 LAMER L453 AZEQU BERGH L454 JFK PLB J560 .....
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG ORF SBY J209 VILLS SAX J6 PLB J560 .....
	or
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560 ....
	or
	JUELE L463 NUCAR AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560 .....
Raleigh/Durham (RDU) .....	BESAS L464 CERDA L451 OLDEY ILM BRADE-STAR .....
	or
	JUELE L463 NUCAR ILM BRADE-STAR .....
Teterboro (TEB) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)-STAR .....
	or
	BESAS L464 LAMER L453 AZEQU BERGH L454 OWENZ .....
	or
	BESAS L464 CERDA LUCTI L454 OWENZ .....
	or

Terminals	Route	Effective Times (UTC)
Toronto (CYYZ) .....	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM	
	J109 FAK JAIKE (RNAV)-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR .....	
	BESAS L464 LAMER L453 AZEZU BERGH L454	
	JFK J63 HUO CFB J95 BUF YOUTH	
	(RNAV)-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM	
	J109 BUF YOUTH (RNAV)-STAR .....	
Washington (DCA) .....	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 BUF YOUTH (RNAV)-STAR .....	
	BESAS L464 CERDA LNHOM L452 OXANA AR8	
	ECG RIC IRONS-STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8	
	ECG RIC OJAAY (RNAV)-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM	
	J40 RIC IRONS-STAR .....	
Washington (IAD) .....	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM	
	J40 RIC OJAAY (RNAV)-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J40 RIC IRONS-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J40 RIC OJAAY (RNAV)-STAR .....	
	BESAS L464 CERDA LNHOM L452 OXANA ECG	
	FAK BARIN (RNAV)-STAR .....	
	or	
White Plains (HPN) .....	BESAS L464 CERDA LNHOM L452 OXANA ECG	
	FAK COATT-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM	
	J109 FAK BARIN (RNAV)-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM	
	J109 FAK COATT-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK BARIN (RNAV)-STAR .....	
Windsor Locks (BDL) .....	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK COATT-STAR .....	
	BESAS L464 CERDA L451 OLDEY ECG ORF J121	
	SIE BOUNO-STAR .....	
	or	
	JUELE L463 NUCAR AR3 PANAL DIW WETRO	
	CEBEE SWL J121 SIE BOUNO-STAR .....	
	or	
	BESAS L464 CERDA LUCTI L454 OWENZ .....	
	or	
Windsor Locks (BDL) .....	BESAS L464 LAMER L453 AZEZU BERGH L454	
	OWENZ .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8	
	ECG ORF J121 SIE BOUNO-STAR .....	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM	
	KEMPR SBY J79 JFK DPK DPK-STAR .....	
	or	

Terminals	Route	Effective Times (UTC)
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK DPK DPK-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY J79 JFK DPK DPK-STAR .....	
Winnipeg (CYWG) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG IJU J99 BAE MSP .....	
	or	
	BESAS L464 CERDA L451 OLDEY METTA CHS VXV J89 IJU J99 BAE MSP .....	
	or	
	JUELE L463 NUCAR AR3 OLDEY METTA CHS VXV J89 IJU J99 BAE MSP .....	
<b>SARASOTA-BRADENTON AREA (SRQ)</b>		
Baltimore (BWI) .....	TAY J75 CAE J52 RIC OTT-STAR .....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) TAY J75 CAE J52 RIC RAVNN (RNAV)-STAR .....	1100-0300
Charlotte (CLT) .....	TAY J85 IRQ UNARM-STAR .....	
	or	
	(Turbojets-GPS or DME/DME IRU equipped) TAY J85 IRQ ADENA (RNAV)-STAR .....	
Chicago Midway (MDW) .....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IJU OKK FISSK (RNAV)-STAR .....	1100-0300
	or	
	(non-advanced RNAV only) CTY J91 ATL J89 IJU OKK V285 CLEFT OXI CGT .....	1100-0300
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	0000-2359
	or	
	(non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	0000-2359
Cincinnati (CVG) .....	(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR .....	
	or	
	(all others) CTY J91 VXV HARDU-STAR .....	
Cleveland (CLE) .....	PIE J119 TAY J85 TVT040 KEATN KEATN-STAR .....	
Columbus (CMH) .....	PIE J119 TAY J85 HVQ HNN BREMN-STAR .....	
Dallas/Ft. Worth (DFW) .....	(Water) SRQ Q100 REDFN Q105 HRV J58 AEX CQY .....	
Denver (DEN) .....	(Water) Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR .....	
Detroit/Wayne (DTW) .....	PIE TAY J85 SPA HNN WEEDA-STAR .....	
Detroit Satellites:		
Ann Arbor (ARB), Pontiac (PTK), Willow Run (YIP) .....	PIE J119 TAY J85 IRQ J99 VXV J43 FLM DQN CRUXX-STAR .....	
Young (DET) .....	PIE J119 TAY J85 DJB LLEE0-STAR .....	
Fort Lauderdale (FLL) .....	(all others) RSW FORTL-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) RSW FORTL JINGL (RNAV)-STAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) SZW J2 SJI COLUMBIA (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR .....	
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR .....	
	or	

Terminals	Route	Effective Times (UTC)
	(GPS or DME/DME-IRU equipped) SZW J2 SJJ WOLDE (RNAV)-STAR.....	
	or	
	(Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR.....	
Indianapolis (IND) .....	CTY J91 ATL J89 IJU DECEE-STAR.....	
La Guardia (LGA) .....	TAY J75 DUNKN J210 VAN FLO J207 RDU J55 HPW J191 PXT KORRY-STAR.....	
Louisville (LOU, SDF) .....	CTY J91 ATL HCH DARBY-STAR.....	
Minneapolis (MSP) .....	CTY J91 ATL J89 BAE EAU-STAR.....	
Nashville (BNA) .....	CTY J91 ATL GQO VOLLS-STAR.....	1100-0300
Newark (EWR) .....	TAY J75 CAE J51 FAK DYLIN-STAR.....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) TAY J75 CAE J51 FAK PHLBO (RNAV)-STAR.....	1100-0300
Philadelphia (PHL) .....	TAY J75 CAE J51 FAK DPNT-STAR.....	
Pittsburgh (PIT) .....	TAY J75 CAE PSK J53 EKN IHD NESTO-STAR.....	
Windsor Locks (BDL) .....	TAY J75 DUNKN J210 J79 JFK DPK DPK-STAR.....	0700-0000
<b>SAVANNAH (SAV)</b>		
Baltimore (BWI) .....	CHS J79 TYI J40 RIC OTT-STAR.....	1100-0400
Philadelphia (PHL) .....	CHS J121 SWL SWL SWL034 RADDS VCN-STAR..	1100-0400
Washington Dulles (IAD) .....	J207 RDU FAK COATT-STAR.....	
	or	
	(GPS or DME/DME-IRU equipped) J207 RDU FAK BARIN-STAR.....	
<b>TAMPA/ST PETERSBURG METRO AREA (TPA, SPG, PIE, TPF)</b>		
Atlanta (ATL) .....	SZW LGC-STAR.....	
	or	
	(RNAV only) SZW HONIE (RNAV)-STAR.....	
Baltimore (BWI) .....	TAY J75 CAE J52 RIC OTT-STAR.....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) TAY J75 CAE J52 RIC RAVNN (RNAV)-STAR.....	1100-0400
Boston (BOS) .....	TAY J75 DUNKN J210 J79 JFK ORW-STAR.....	1100-0400
Charlotte (CLT) .....	TAY J85 IRQ UNARM-STAR.....	
	or	
	(Turbojets-GPS or DME/DME IRU equipped) TAY J85 IRQ ADENA (RNAV)-STAR.....	
Chicago Midway (MDW) .....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IJU OKK FISSK (RNAV)-STAR.....	1100-0300
	or	
	(non-advanced RNAV only) CTY J91 ATL J89 IJU OKK V285 CLEFT OXI CGT.....	1100-0300
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK MZZ ROYKO (RNAV)-STAR.....	0000-2359
	or	
	(non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR.....	0000-2359
Cincinnati (CVG) .....	(All Others) CTY J91 VXV HARDU-STAR.....	
	or	
	(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR.....	
Cleveland Metro (CLE) .....	PIE J119 TAY J85 TVT040 KEATN KEATN-STAR...	
	or	
	CTY J91 HNN TVT KEATN-STAR.....	
Columbus (CMH) .....	PIE J119 TAY J85 HVQ HNN BREMN-STAR.....	
	or	
	CTY J91 HNN BREMN-STAR.....	
Denver (DEN) .....	SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR.....	
Detroit/Wayne (DTW) .....	TAY J85 SPA HNN WEEDA-STAR.....	
Detroit Satellites:		
Ann Arbor (ARB), Pontiac (PTK), Young		
(DET) .....	CTY J91 VXV J43 FLM DQN CRUXX-STAR.....	
Willow Run (YIP) .....	CTY J91 VXV J43 FLM DQN V98 VQQ CRUXX.....	

Terminals	Route	Effective Times (UTC)
Windsor (CYQG) .....	PIE J119 TAY J85 DJB LLEEO-STAR .....	
Fort Lauderdale:		
Hollywood Intl (FLL), Executive (FXE),		
Pompano Beach (PMP), North Perry		
(HWO), Opa Locka (OPF) .....	(all others) RSW FORTL-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) SABEE RXXAN	
	JINGL (RNAV)-STAR .....	
Fort Myers (RSW), (FMY) .....	(Turbojets-GPS or DME/DME-IRU equipped) SRQ	
	TYNEE (RNAV)-STAR .....	
Fort Pierce (FPR) .....	VRB .....	1030-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SIMMR REMIS	
	Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) SZW J2 SJI	
	COLUMBIA (RNAV)-STAR .....	1000-0300
	or	
	(Non-advanced NAV only) SZW J2 CEW J50 AEX	
	DAS-STAR .....	1000-0300
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) SIMMR REMIS	
	Q100 LEV WOLDE (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) SZW J2 SJI	
	WOLDE (RNAV)-STAR .....	1000-0300
	or	
	(Non-advanced NAV only) SZW J2 CEW J50 AEX	
	DAS-STAR .....	1000-0300
Indianapolis (IND) .....	CTY J91 ATL J89 IIU DECEE-STAR .....	
Kennedy (JFK) .....	TAY J75 J210 J121 SIE CAMRN-STAR .....	
Key West (EYW) .....	RSW J41 .....	1030-0300
La Guardia (LGA) .....	TAY J75 DUNKN J210 VAN FLO J207 RDU J55	
	HPW J191 PXT KORRY-STAR .....	1100-0400
Louisville (SDF) .....	CTY J91 ATL HCH DARBY-STAR .....	
Miami (MIA) .....	(all others) RSW CY Y CY Y-STAR .....	1030-0300
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) RSW	
	CYY SSCOT (RNAV)-STAR .....	
Minneapolis (MSP) .....	CTY J91 ATL J89 BAE EAU-STAR .....	
Nashville (BNA) .....	CTY J91 ATL GQO VOLLS-STAR .....	
Newark (EWR) .....	TAY J75 CAE J51 FAK DYLIN-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) TAY J75 CAE	
	J51 FAK PHLBO (RNAV)-STAR .....	1100-0400
Philadelphia (PHL) .....	TAY J75 CAE J51 FAK DPNT-STAR .....	1100-0400
Pittsburgh (PIT) .....	TAY J75 CAE PSK EKN IHD NESTO-STAR .....	
Raleigh-Durham (RDU) .....	TAY J75 CAE BUZZY-STAR .....	
Washington Dulles (IAD) .....	TAY J75 CAE J51 FAK COATT-STAR .....	1100-0400
Washington Natl (DCA) .....	TAY J75 CAE J52 RIC IRONS-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) TAY J75 CAE	
	J52 RIC OJAAY (RNAV)-STAR .....	1100-0400
West Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped)	
	SABEE JOOOE WLACE (RNAV)-STAR .....	
Windsor Locks (BDL) .....	TAY J75 DUNKN J210 J79 JFK DPK DPK-STAR ....	0700-0000
From St Petersburg (PIE) only:		
Detroit/Wayne (DTW) .....	TAY J85 SPA HNN WEEDA-STAR	
Detroit Satellites:		
Ann Arbor (ARB), Pontiac (PTK) Willow		
Run (YIP) .....	CTY J91 VXV J43 FLM DQN CRUXX-STAR .....	
Windsor (CYQG), Young (DET) .....	PIE J119 TAY J85 DJB LLEEO-STAR .....	

# **PREFERRED IFR ROUTES** **SPECIAL HIGH ALTITUDE ARRIVAL ROUTES** **FOR ATLANTA HARTSFIELD INTL ARPT** **(JETS AND TURBOPROPS)**

**NORTHEAST**

Traffic originating North and East of J186 to North of a line from ATL to RDU file:

.....	MOL WHINZ-STAR .....
	or
.....	MOL FLCON (RNAV)-STAR .....
.....	J145 ODF WHINZ-STAR .....
	or
.....	J145 ODF FLCON (RNAV)-STAR .....
.....	VXV WHINZ-STAR .....
	or
.....	VXV FLCON (RNAV)-STAR .....
.....	J186 ODF WHINZ-STAR .....
	or
.....	J186 ODF FLCON (RNAV)-STAR .....
.....	SPA ODF WHINZ-STAR .....
	or
.....	SPA ODF FLCON (RNAV)-STAR .....

**SOUTHEAST**

Traffic originating South of a line from ATL to RDU, to East of J89 file:

.....	IRQ SINCA-STAR .....
	or
.....	IRQ CANUK (RNAV)-STAR .....
.....	DBN SINCA-STAR .....
	or
.....	DBN CANUK (RNAV)-STAR .....

**SOUTHWEST**

Traffic originating West of J89 to South and West of J14 file:

.....	MEI LGC-STAR .....
	or
.....	MEI HONIE (RNAV)-STAR .....
.....	SZW LGC-STAR .....
	or
.....	SZW HONIE (RNAV)-STAR .....
.....	MGM LGG-STAR .....
	or
.....	MGM HONIE (RNAV)-STAR .....

**NORTHWEST**

Traffic originating West and North of J43 to North of J14 file:

.....	BWG RMG-STAR .....
	or
.....	BWG ERLIN (RNAV)-STAR .....
.....	BNA RMG-STAR .....
	or
.....	BNA ERLIN (RNAV)-STAR .....
.....	MEM RMG-STAR .....
	or
.....	MEM ERLIN (RNAV)-STAR .....



**SPECIAL HIGH ALTITUDE ARRIVAL ROUTES  
FOR ATLANTA TERMINAL AREA AIRPORTS  
(SATELLITE AIRPORTS ONLY JETS AND TURBOPROPS)**

**NORTHEAST**

Traffic originating North and East of a line from ATL to VXV to North of a line from ATL to RDU file:

.....	J48 ODF AWSON-STAR .....
.....	J145 ODF AWSON-STAR .....
.....	VXV AWSON-STAR .....
.....	J186 ODF AWSON-STAR .....
.....	SPA ODF AWSON-STAR .....

**SOUTHEAST**

Traffic originating South of a line from ATL to RDU, to East of J89 file:

.....	IRQ TRBOW-STAR .....
.....	DBN TRBOW-STAR .....

**SOUTHWEST**

Traffic originating West of J89 to South and West of J14 file:

.....	MEI LGC MIKEE-STAR .....
.....	SZW LGC MIKEE-STAR .....
.....	MGM LGC MIKEE-STAR .....

**NORTHWEST**

Traffic originating West and North of a line from ATL to VXV to North of J14 file:

.....	GQO BUNNI-STAR .....
.....	RQZ BUNNI-STAR .....

**SPECIAL HIGH ALTITUDE ARRIVAL ROUTES  
FOR CHARLOTTE TERMINAL AREA**

**NORTHEAST**

Traffic originating North and East of J53 to North of a line from CLT to RDU file:

.....	LYH MAJIC-STAR .....
.....	RDU SUDSY (RNAV)-STAR .....
.....	ROA MAJIC-STAR .....

**SOUTHEAST**

Traffic originating South of a line from CLT to RDU to South and East of J51 file:

.....	FLO CTF-STAR .....
.....	FLO HUSTN (RNAV)-STAR .....

**SOUTHWEST**

Traffic originating West of J51 to South of J118 file:

.....	ATL ADENA (RNAV)-STAR .....
.....	ATL UNARM-STAR .....
.....	IRQ ADENA (RNAV)-STAR .....
.....	IRQ UNARM-STAR .....

**NORTHWEST**

Traffic originating West of J53 to North of J118 file:

.....	VXV SHINE-STAR .....
.....	HMV SHINE-STAR .....

## PREFERRED IFR ROUTES

### SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR MEMPHIS TERMINAL AREA

**NORTHEAST**

Traffic entering Memphis ARTCC north of J118:

.....	BNA WILDER-STAR .....
.....	BWG WILDER-STAR .....
.....	PXV WILDER-STAR .....

**NORTHWEST**

Traffic entering Memphis ARTCC on or west of J35:

.....	FAM GQE-STAR .....	
.....	ARG GQE-STAR .....	
.....	SGF ARG GQE-STAR .....	
.....	RZC GQE-STAR .....	
.....	FSM GQE-STAR .....	1100-0200

**SOUTHEAST**

Traffic entering Memphis ARTCC south of J118:

.....	VUZ HLI-STAR (MONDAY-FRIDAY) .....	
.....	GQO HLI-STAR .....	1100-0200

**SOUTHWEST**

Traffic entering Memphis ARTCC on or south of J6:

.....	LIT MARVELL-STAR .....	
.....	TXK MARVELL-STAR .....	
.....	ELD MARVELL-STAR .....	
.....	SQS MARVELL-STAR .....	1100-0200

### SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

Terminals	Route	Effective Times (UTC)
Traffic entering Miami Center (ZMA) for northbound	Caribbean flights originating from Santo Domingo UIR (MDCS) to:	
FLL .....	(Advanced RNAV equipped) JUELE L463	
	BTLE A555 ZQA 054V CAREY DEKAL	
	WAVUN (RNAV)-STAR .....	
	or	
	JUELE L463 BTLE A555 ZQA 054V CAREY	
	DEKAL DEKAL-STAR .....	
	or	
(Advanced RNAV equipped) RETAK A636 ZIN		
A315 HODGY ZQA 054V CAREY DEKAL		
WAVUN(RNAV)-STAR .....	or	
	RETAK A636 ZIN A315 HODGY ZQA 054V	
	CAREY DEKAL DEKAL-STAR .....	
MIA .....	(Advanced RNAV equipped) JUELE L463	
	BTLE A555 ZQA FLIPR (RNAV)-STAR .....	
	or	
	JUELE L463 BTLE A555 ZQA FOWEE -STAR	
	or	
	(Advanced RNAV equipped) RETAK A636 ZIN	
	A315 HODGY FLIPR(RNAV)- STAR .....	
	or	
	RETAK A636 ZIN A315 HODGY FOWEE-STAR	
PBI .....	JUELE L463 BTLE A555 ZQA 054V PBI.....	
	or	
	RETAK A636 ZIN A315 HODGY ZQA 054V.....	

# PREFERRED IFR ROUTES

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

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	Route	Effective Times (UTC)
Traffic overflying Atlanta Center originating north and east of a line from TYS to LAL (except DAY and CVG) for ZTL to MCO:	PSK CAE SAV OMN BITHO-STAR .....	1100-0400
.....	or	
.....	J83 SPA CAE SAV OMN BITHO-STAR.....	1100-0400
.....	or	
.....	(GPS or DME/DME-equipped) PSK CAE SAV OMN CWRLD (RNAV)-STAR .....	1100-0400
.....	or	
.....	(GPS or DME/DME-IRU equipped) J83 SPA CAE SAV OMN CWRLD (RNAV)-STAR .....	1100-0400
Traffic overflying Atlanta Center Eastbound originating South of a line from DFW to JFK:		
BDL .....	GRD J209 RDU J207 FKN J79 JFK DPK DPK-STAR.....	
BOS .....	(Turbojet only) GRD J209 RDU J207 FKN J79 JFK ORW-STAR .....	
.....	or	
.....	(Turboprop only) SIE J121 HTO V308 ORW V16 WOONS .....	
BWI .....	SPA J14 RIC OTT-STAR.....	
.....	or	
.....	(GPS or DME/DME-IRU equipped) SPA J14 RIC RAVNN (RNAV)-STAR .....	
DCA.....	SPA J14 RIC IRONS-STAR .....	
.....	or	
.....	(GPS or DME/DME-IRU equipped) SPA J14 RIC OJAAY (RNAV)-STAR .....	
EWR .....	SPA J14 J15 FAK DYLIN-STAR .....	
.....	or	
.....	(GPS or DME/DME-IRU equipped) SPA J14 J51 FAK PHLBO (RNAV)-STAR .....	
IAD .....	SPA J14 J51 FAK COATT-STARR.....	
JFK.....	GRD J209 ORF J121 SIE CAMRN-STAR .....	
LGA .....	AHN J208 HPW J191 PXT KORRY-STAR .....	
PHL .....	SPA J14 J51 FAK DPNT-STAR .....	
Northbound from over VXV with destination of CMH:	VXV J91 HNN BREMN-STAR.....	
Traffic overflying Atlanta Center Northbound from over SPA to CMH:	SPA J85 HVQ HNN BREMN-STAR .....	
Traffic overflying Atlanta Center Northbound from over PSK to CMH:	PSK HVQ HNN BREMN-STAR.....	
Traffic overflying Atlanta Center Southbound originating North and East of line from VXV to LAL (except DAY and CVG) with destinations of FLL, FMY, MCO, MIA, PBI, RSW, SRQ and TPA file:	PSK CAE.....	1100-0300
.....	or	
.....	J83 SPA J85 AMG.....	1100-0300
Traffic overflying Atlanta Center Southbound originating North and East of a line from VXV to LAL (with DAY and CVG) with destinations of FLL, FMY, MCO, MIA, PBI and RSW file:		
.....	VXV J91 ATL OTK .....	1100-0300
.....	or	
.....	BNA J73 SZW .....	1100-0300
.....	or	
.....	MGM J20 SZW .....	1100-0300
.....	or	
.....	BNA J73 SZW .....	1100-0300
.....	or	
.....	MGM J20 SZW .....	1100-0300

# PREFERRED IFR ROUTES

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

	Route	Effective Times (UTC)
Traffic originating South of Wilmington VORTAC (ILM):		
EWR .....	ILM J109 FAK DYLIN-STAR .....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) ILM J109	
	FAK PHLBO (RNAV)-STAR .....	1100-0300
FRG .....	(Water-Turbojets) WOLFO AR18 DIW WETRO	
	CEBEE SWL J121 SIE CAMRN-STAR .....	
JFK .....	(Water-Turbojets) WOLFO AR18 DIW WETRO	
	CEBEE SWL J121 SIE CAMRN-STAR .....	1100-0300
LGA .....	ILM TYI HPW J191 PXT KORRY-STAR .....	1100-0300
Traffic overflying Ormond Beach VORTAC (OMN) destined MIA:		
OMN .....	OMN J79 VRB HEATT-STAR .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to La Romana (MDLR) and Nagua (MDCY):		
ZMA .....	LETON L450 GTK ASIVO .....	
	or	
	LNHOM L452 GTK ASIVO .....	
	or	
	LAMER L464 CERDA L453 ASIVO .....	
	or	
	MLLER M594 CERDA L459 ASIVO .....	
	or	
	NUCAR L463 RNDLY ASIVO .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Puerto Plata (MDPP):		
ZMA .....	LETON L450 SEKAR A554 PTA .....	
	or	
	LNHOM L452 GTK A554 PTA .....	
	or	
	LAMER L453 MACKI B891 PTA .....	
	or	
	LUCTI L454 MNDEZ M594 CERDA L453	
	MACKI B891 PTA .....	
	or	
	MLLER M594 CERDA L453 MACKI B891	
	PTA .....	
	or	
	NUCAR L463 RNDLY SEKAR A554 PTA .....	
	or	
	WATRS M596 PTA .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Santo Domingo (MDSD):		
ZMA .....	LETON L450 SEKAR A554 CDO .....	
	or	
	LNHOM L452 GTK L450 SEKAR A554 CDO...	
	or	
	LAMER L453 ASIVO CDO .....	
	or	
	LUCTI L454 MNDEZ M594 CERDA L453	
	ASIVO CDO .....	
	or	
	MLLER M594 CERDA L453 ASIVO CDO .....	
	or	
	NUCAR L463 RNDLY SEKAR A554 CDO .....	

# PREFERRED IFR ROUTES

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

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	Route	Effective Times (UTC)
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Port au Prince (MTPP):		
ZMA .....	LETON L450 GTK G444 OBN .....	
	or	
	LNHOM L452 GTK G444 OBN .....	
	or	
	LAMER L464 CERDA M594 GTK G444 OBN .	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Johns Island (TAPA):		
ZMA .....	LETON L451 ELMUC L451 ANU .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L451 ANU .....	
	or	
	LAMER L453 CERDA L451 ELMUC L451 ANU .....	
	or	
	LUCTI L454 ELMUC L451 ANU .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Bridgetown (TBPB):		
ZMA .....	LETON L451 ELMUC L454 ILURI A555 BGI ...	
	or	
	LNHOM L452 JORGG L451 ELMUC L454 ILURI A555 BGI .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454 ILURI A555 BGI .....	
	or	
	LUCTI L454 ELMUC L454 ILURI A555 BGI ....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Fort de France (TFFF):		
ZMA .....	LETON L451 ELMUC L454 ILURI A555 FOF...	
	or	
	LNHOM L452 JORGG L451 ELMUC L454 ILURI A555 FOF .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454 ILURI A555 FOF .....	
	or	
	LUCTI L454 ELMUC L454 ILURI A555 FOF ....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Grand Case (TFFG) and Saint Barthelemy (TFFJ) and Oranjestad-Roosevelt (TNCE) and Sanit Maarten (TNCM) and The Valley (TQPF):		
ZMA .....	LETON L451 ELMUC L451 PJM .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L451 PJM .....	
	or	
	LAMER L453 CERDA L451 ELMUC L451 PJM .....	
	or	
	LUCTI L454 ELMUC L451 PJM .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Point a Pitre (TFFR):		
ZMA .....	LETON L451 ELMUC L454 LEEEO MODUX R888 PPR .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L454 LEEEO MODUX R888 PPR .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454 LEEEO MODUX R888 PPR .....	
	or	
	LUCTI L454 ELMUC L454 LEEEO MODUX R888 PPR .....	

# PREFERRED IFR ROUTES

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

	Route	Effective Times (UTC)
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Thomas Virgin Islands (TIST):		
ZMA .....	LETON L451 ELMUC L454 PANMO JETSS .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L454	
	PANMO JETSS .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454	
	PANMO JETSS .....	
	or	
	LUCTI L454 ELMUC L454 PANMO JETSS .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Croix Virgin Islands (TISX):		
ZMA .....	LETON L451 ELMUC L454 PANMO COY .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L454	
	PANMO COY .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454	
	PANMO COY .....	
	or	
	LUCTI L454 ELMUC L454 PANMO COY .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Aguadilla (TJBQ):		
ZMA .....	LETON L451 ELMUC BQN .....	
	or	
	LNHOM L452 JORGG L451 ELMUC BQN .....	
	or	
	LAMER L453 CERDA L451 ELMUC BQN .....	
	or	
	LUCTI L454 ELMUC BQN .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to San Juan (TJIG):		
ZMA .....	LETON L451 ELMUC IDAHO BEANO .....	
	or	
	LNHOM L452 JORGG L451 ELMUC IDAHO	
	BEANO .....	
	or	
	LAMER L453 CERDA L451 ELMUC IDAHO	
	BEANO .....	
	or	
	LUCTI L454 ELMUC IDAHO BEANO .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Mayaguez (TJMZ):		
ZMA .....	LETON L451 ELMUC MAZ .....	
	or	
	LNHOM L452 JORGG L451 ELMUC MAZ .....	
	or	
	LAMER L453 CERDA L451 ELMUC MAZ .....	
	or	
	LUCTI L454 ELMUC MAZ .....	

# PREFERRED IFR ROUTES

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

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	Route	Effective Times (UTC)
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Ponce (TJPS):		
ZMA .....	LETON L451 ELMUC PSE.....	
	or	
	LNHOM L452 JORGG L451 ELMUC PSE .....	
	or	
	LAMER L453 CERDA L451 ELMUC PSE .....	
	or	
	LUCTI L454 ELMUC PSE.....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to San Juan (TJSJ):		
ZMA .....	LETON L451 ELMUC IDAHO R006 .....	
	or	
	LNHOM L452 JORGG L451 ELMUC IDAHO R006 .....	
	or	
	LAMER L453 CERDA L451 ELMUC IDAHO R006 .....	
	or	
	LUCTI L454 ELMUC IDAHO R006.....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Golden Rock (TKPK) and Charlestown (TKPN):		
ZMA .....	LETON L451 ELMUC L454 LEEEO DANDE G633 SKB.....	
	or	
	LNHOM L452 JORGG L451 ELMUC L454 LEEEO DANDE G633 SKB .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454 LEEEO DANDE G633 SKB .....	
	or	
	LUCTI L454 ELMUC L454 LEEEO DANDE G633 SKB.....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Crown Point (TTCP) and Port of Spain (TTPP):		
ZMA .....	LETON L451 ELMUC G431 DDP G449 POS...	
	or	
	LNHOM L452 JORGG L451 ELMUC G431 DDP G449 POS .....	
	or	
	LAMER L453 CERDA L451 ELMUC G431 DDP G449 POS .....	
	or	
	LUCTI L454 ELMUC G431 DDP G449 POS....	
	or	
	GTK L452 ANADA G449 POS .....	

# PREFERRED IFR ROUTES HIGH ALTITUDE—SINGLE DIRECTION ROUTES

Airway	Segment Fixes	Direction Effective	Effective Times (UTC)
J14 .....	Greensboro, NC to Richmond, VA .....	Northeast	1100-0300
J37 .....	Coyle, NJ to Spartanburg, SC .....	Southwest	1100-0300
J40 .....	Wilmington, NC to Richmond, VA .....	North	1100-0300
J48 .....	Pottstown, PA to Foothills, GA .....	Southwest	1100-0300
J51 .....	Columbia, SC to Yardley, NJ .....	Northeast	1100-0300
J52 .....	Columbia, SC to Richmond, VA .....	Northeast	1100-0300
J55 .....	Florence, SC to HUBBS Int., VA .....	Northeast	1100-0300
J75 .....	Modena, PA to Greensboro, NC .....	Southwest	1100-0300
J89 .....	Atlanta, GA to HITTR Int, FL .....	South	1100-0300
J91 .....	Cross City, FL to Atlanta, GA .....	North	1100-0300
J109 .....	Wilmington, NC to Buffalo, NY .....	North	1100-0300
J165 .....	Charleston, SC to Richmond, VA .....	North	1100-0300
J191 .....	Wilmington, NC to Robbinsville, NJ .....	North	1100-0300
J193 .....	HUBBS Int., VA to Wilmington, NC .....	South	1100-0300
J207 .....	Florence, SC to Franklin, VA .....	Northeast	1100-0300
J208 .....	Athens, GA to Hopewell, VA .....	Northeast	1100-0300
J209 .....	Greenwood, SC to Norfolk, VA .....	Northeast	1100-0300



## GULF OF MEXICO "Q ROUTES"

These area navigation routes extend more than 12 miles off shore in airspace controlled by the Federal Aviation Administration (FAA). Additional regulatory information for these routes can be found in the Notices to Airmen Publication, Part 3, International Notices to Airmen.

These routes have a Minimum Obstruction Clearance Altitude (MOCA) of 1500 feet (MSL). The Minimum Enroute Altitude (MEA) for these routes is 6000 feet (MSL).

**Q100**

LEV VORTAC  
 REDFN N28°52.98'/W088°42.11'  
 ROZZI N28°18.87'/W086°42.31'  
 REMIS N27°53.04'/W085°15.47'  
 SRQ VORTAC

**Q102**

LEZ VORTAC  
 BLVNS N28°22.94'/W088°02.05'  
 BUNNZ N28°00.58'/W086°45.76'  
 BACCA N27°35.51'/W085°20.66'  
 CIGAR N27°29.61'/W084°46.99'  
 BAGGS N27°08.06'/W082°50.45'  
 CYY VORTAC

**Q105**

HRV VORTAC  
 FATSO N29°41.40'/W089°47.08'  
 REDFN N28°52.98'/W088°42.11'  
 BLVNS N28°22.94'/W088°02.05'

**Q-ROUTES REGULATORY**

**Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.**

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico. Gulf of Mexico Q routes are explained in the Southeast and South Central A/FD volumes. Q routes listed in this A/FD volume have at least part of one of their leg segments within this volume's area of coverage.

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. Q routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

Route	Segment	DME
<b>Q1</b>	ELMAA-ERAVE	BTG, OLM, HQM, HUH, UBG
	ERAVE-EASON	BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG
	EASON-EBINY	CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT
	EBINY-ENVIE	CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS
	ENVIE-ETCHY	OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS
	ETCHY-POINT REYES	LIN, ECA, RBL, ENI, SAC, OAK
<b>Q2</b>	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-HOBOL	BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS
	HOBOL-ITUCO	TFD, GBN, BLH, PXR, TUS, CIE, SSO
	ITUCO-NEWMAN	EWM, TFD, PXR, CIE, SSO, TUS, TCS
<b>Q3</b>	FEPOT-FAMUK	OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG
	FAMUK-FRFLY	BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT
	FRFLY-FINER	OED, EUG, RBL, LMT, ENI, CVO, FJS
	FINER-FOWND	OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS
<b>Q4</b>	FOWND-POINT REYES	LIN, ECA, PYE, RBL, SAC, ENI
	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-SCOLE	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SCOLE-SPTFR	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SPTFR-ZEBOL	EED, IPL, BZA, GBN, TFD, PXR, BLH
	ZEBOL-SKTRR	PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS
	SKTRR-EL PASO	EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME

Route	Segment	DME
Q5	HAROB-HISKU	OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH
	HISKU-HARPR	ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV
	HARPR-HOMEG	CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV
	HOMEG-HUPTU	SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS
	HUPTU-STIKM	OAK, ECA, PYE, LIN, SAC, ENI, RBL
Q7	JINMO-JOGEN	CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA
	JOGEN-JUNEJ	LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG
	JUNEJ-JAGWA	RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS
	JAGWA-AVENAL	OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ
Q9	SUMMA-SMIGE	OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED, EPH, MWH
	SMIGE-SUNBE	IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG
	SUNBE-REBRG	RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED, SWR
Q11	REBRG-DERBB	CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA
	PAAGE-PAWLI	EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV, OED, SEA
	PAWLI-PITVE	EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO
	PITVE-PUSHH	FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ
Q13	PUSHH-LOS ANGELES	SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS
	All segments	None; GNSS required
	All segments	None; GNSS required
Q15	PLESS-NASHVILLE	ENL, GQO, PXV, BNA, IIU, FAM, BWG, CSX
Q20	CORONA-HONDS	CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME
	HONDS-UNNOS	CNX, INK, CME, TXO, TCC
	UNNOS-FUSCO	FST, ACH, INK, CME, SJT, TXO, TCC
	FUSCO-JUNCTION	ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST
Q21	JONEZ-RAZORBACK	BYP, EOS, TUL, TXK, ADM, RZC, OKM
Q22	GUSTI-OYSTY	AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV
	OYSTY-ACMES	RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI
	ACMES-CATLN	SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI
Q23	FORT SMITH-RAZORBACK	OKM, RZC, EOS, TUL
Q24	LAKE CHARLES-BATON ROUGE	AEX, DAS, LCH, MCB, LFT, BTR
	BATON ROUGE-IRUBE	AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY
	IRUBE-PAYTN	GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI
	MEEOW-WALNUT RIDGE	ELD, MEM, LIT, FAM, RZC
Q25	WALNUT RIDGE-WLSUN	MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH
	WLSUN-POCKET CITY	BWG, PXV, ENL, BNA, TTH
	WALNUT RIDGE-DEVAC	LIT, JKS, GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG
Q26	FORT SMITH-ZALDA	OKM, SGF, RZC, EOS, TUL
Q27	GRAZN-PYRMD	EIC, LIT, ELD, OKM, TXK
	PYRMD-HAKAT	ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK
	HAKAT-ESTEE	ARG, LIT, FAM, SGF, MEM
	ESTEE-POCKET CITY	ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA
Q29	HARES-MEMPHIS	MEM, ARG, LIT, JAN, ELD, SQS
	MEMPHIS-SIDAE	MEM, PXV, BNA, BWG, ARG, ENL
	SIDAE-POCKET CITY	PXV, TTH, BWG, ENL
Q30	SIDON-VULCAN	GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG
Q31	DHART-JODOX	SQS, LIT, TXK
	JODOX-MARVELL	SQS, LIT, ELD, MEM, ARG
	MARVELL-TIDE	ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH
	TIDE-POCKET CITY	BWG, PXV, ENL, TTH
Q32	EL DORADO-GAGLE	AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK
	GAGLE-CRAMM	JAN, SQS, MEM, ARG, VUZ, BNA, LIT
	CRAMM-NASHVILLE	BWG, MEM, VUZ, BNA, GQO
	NASHVILLE-SWAPP	BWG, IIU, PXV, VVX, BNA, GQO
Q33	DHART-LITTLE ROCK	AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS
	LITTLE ROCK-PROWL	ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL
	TEXARKANA-MATIE	LIT, SWB, TXK, BYP, EIC, ELD, SQS
Q34	MATIE-MEMPHIS	LIT, ARG, MEM, ELD, SQS
	MEMPHIS-SWAPP	BWG, ARG, MEM, MKL, SQS, PXV, BNA, GQO, IIU, VVX
	KIMBERLY-NEERO	LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO
Q35	NEERO-WINEN	BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE
	WINEN-CORKR	CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK
	CORKR-DRAKE	TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD

Route	Segment	DME
Q36	RAZORBACK-TWITS	RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT
	TWITS-DEPEC	MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU
	DEPEC-NASHVILLE	GQO, BWG, BNA, PXV, IIU
	NASHVILLE-SWAPP	VXV, BWG, BNA, GQO, PXV, IIU
Q38	ROKIT-INCIN	DAS, LCH, SWB, IAH, LFK, HUB, AEX
	INCIN-LAREY	JAN, MCB, SWB, AEX
	LAREY-BESOM	JAN, JYU, MEI, SQS, VUZ
Q40	ALEXANDRIA-DOOMS	AEX, SWB, LCH, JAN, HEZ, MCB
	DOOMS-WINAP	JAN, SQS, MEI, MCB
	WINAP-MISLE	MEI, VUZ, JYU
Q42	KIRKSVILLE-STRUK	CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX
	STRUK-DANVILLE	ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK, OBK, GIJ, FWA, GSH, IRK
	DANVILLE-MUNCIE	GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM
	MUNCIE-HIDON	FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN, AIR, HVQ, CXR, EWC
Q104	HIDON-BUBAA	AIR, APE, HNN, CXR, HVQ, EWC, DJB
	BUBAA-PSYKO	AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB
	PSYKO-BRNAN	PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT
	BRNAN-MAALS	EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE
	MAALS-SUZIE	ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK
	SUZIE-EAST TEXAS	JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN
	EAST TEXAS-ELIOT	HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK
	DEFUN-HEVVN	PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG
	HEVVN-PLYER	PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD
	PLYER-SWABE	PIE, ORL, OMN, SRQ, TAY
	SWABE-ST PETERSBURG	LAL, ORL, OMN, SRQ, PHK, PIE
	ST PETERSBURG-CYPRESS	PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN
	Q106	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW
	Q108	AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI
Q110	BULZI-DRABK	MGM, PZD, OTK, JYU, SZW, CEW, SJI
	DRABK-GADAY	CEW, JYU, MGM, SZW, RRS, PZD, MAI, OTK, GEF, MGR, TAY, AMG, CRG
	GADAY-HKUNA	SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI
	THNOR-JAYMC	VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP
Q112	JAYMC-RVERO	OMN, PIE, PBI, SRQ, ORL, LAL
	RVERO-KPASA	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	KPASA-BRUTS	OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK
	BRUTS-GULFR	TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM
Q116	GULFR-FEONA	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB
	DEFUN-HEVVN	JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG
Q118	HEVVN-INPIN	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	KPASA-BRUTS	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK
	BRUTS-GULFR	MCN, AMG, PZD, OTK, SZW, TAY
Q501	GULFR-CEEYA	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	KPASA-BRUTS	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN
Q502	BRUTS-LENIE	ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU, DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF
	VIXIS-GOPHER	FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD
	GOPHER-SOBME	SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW, MSP, MNM, ASP, TVC, GEP, RWF, BRD
Q504	KENPA-GOPHER	FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD
	GOPHER-SOBME	SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC, SAW, GRB, BRD
	NOTAP-CESNA	ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD
Q505	CESNA-HEMDI	SSM, TVC, ASP, SAW, GRB
	OMAGA-RIMBE	SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI
	RIMBE-CESNA	GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB
Q505	CESNA-HEMDI	

**RNAV Routing Pitch and Catch Points**

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by **pitch** (entry into) and **catch** (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes only.

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

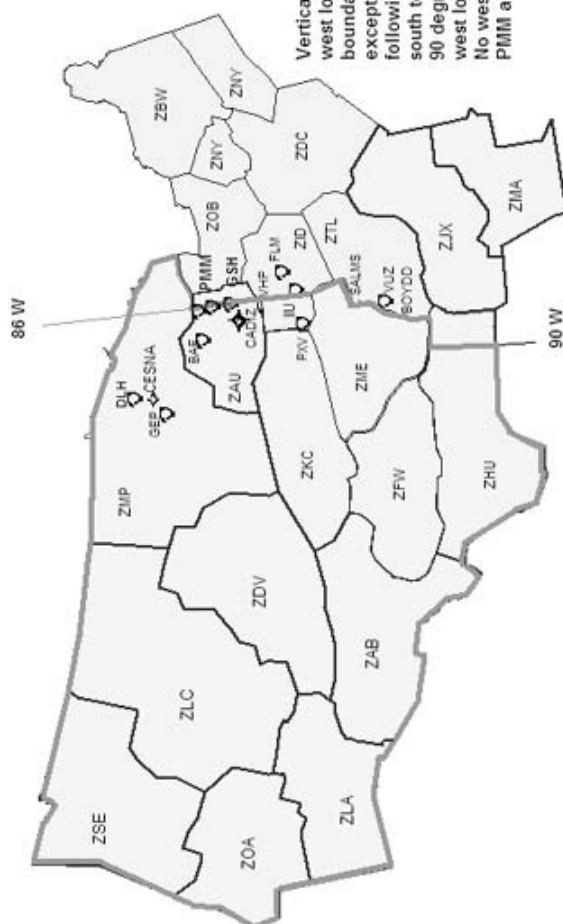
Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: <http://sua.faa.gov/sua/Welcome.do>. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.

## High Altitude Redesign (HAR) Phase One Expansion Airspace

Except as noted, flights entering HAR expansion airspace may pitch at the airspace boundary, at the vertical pitch line, or at the fixes listed on the following page.



Vertical Pitch Line: 86 degrees west longitude from the ZMP/ZAU boundary to the ZME/ZAU boundary, except between PMM and GSH, then following the ZME east boundary south to the ZHU boundary. Then west to 90 degrees west longitude, the 90 degrees west longitude to the ZHU southern boundary. No westbound traffic between PMM and GSH.

### HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports Located Outside HAR Phase I Expansion Airspace

Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, MIE.

Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic.

### HAR Special High Altitude Pitch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists pitch points for airports within the HAR Phase I expansion airspace.

Albuquerque	ABQ, GUP, HANOS or ZUN
Austin	ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV
Boca Raton, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Burbank includes Santa Monica and Van Nuys	GMN, MARKS or DAG LAS or HEC EED or PMD BLH
Chicago Terminal Area	IOW, PLL275065, MZV or BAE
Dallas/Fort Worth Terminal Area	ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK ELD, SWB or Aircraft destined the Chicago terminal area Except MDW EAKER MIDEE BDF BRADFORD-STAR Or MLC J105 SGF BDF BRADFORD-STAR
Denver Terminal Area	PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE, CABET, WEEDS, OR BINKE
Fort Lauderdale (or) Fort Lauderdale Executive	THNDR KPASA Q118 LENIE or THNDR KPASA Q116 CEEYA or THNDR KPASA Q110 FEONA or THNDR SMELZ Q106 GADAY or THNDR SMELZ Q106 BULZI
Houston Bush	LIT, ELD, MLC, JCT or Aircraft destined Atlanta Terminal Area LCH Q24 PAYTN HONIE-RNAV STAR or Aircraft joining J37 to the northeast, GUSTI SID GUSTI Q22 CATLN or Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42

Houston Hobby	LIT, ELD, MLC, JCT, or Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42
Jacksonville, FL	TAY
Kansas City Terminal Area	TIFTO, CATTs or KENTN
Los Angeles, includes Ontario	GMN, RZS or DAG LAS or TRM EED or TRM PKE
Las Vegas	DOBNE, MOSBI, NICLE, TRALR or ZELOT
Long Beach includes Orange County	GMN SNS, EHF, LANDO or TRM PKE or TRM EED
Memphis	BNA, HAAWK, SALMS or SQS
Miami Terminal Area	WINCO KPASA Q118 LENIE or WINCO KPASA Q116 CEEYA or WINCO KPASA Q110 FEONA or WINCO SMELZ Q106 GADAY or WINCO SMELZ Q106 BULZI
Milwaukee	GREAS
Minneapolis Terminal Area*	ONL, ABR, FAR, OBH, OVR, FOD
New Orleans Terminal Area	AEX, MEI, SQS, KAPLN
Orlando Terminal Area	WEBBS BRUTS Q118 LENIE or WEBBS GULFR Q116 CEEYA or WEBBS BULZI Q106 GADAY or WEBBS FEONA or WEBBS BULZI
Palm Beach, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Palm Springs	TRM JOTNU BLD or TRM EED or TRM PKE
Phoenix	CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK
Portland, OR	PDT, TIMEE

Salt Lake City	HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI or TCH J56 CHE or TCH J173 EKR
Saint Louis	VIH, MAP, MYERZ, MCM or HLV MCI
San Antonio Terminal Area	FUZ, SJT, MQP, ABI or Aircraft North of LFK, LFK or Aircraft South of HUB, ELA or Aircraft South of LFK and North of HUB LCH
San Diego	TRM EED or TRM PKE or TRM JOTNU BLD
San Francisco Bay Area	GALLI, INSLO, HAROL JSICA
Oakland	GALLI, INSLO, HAROL JSICA
San Jose	GALLI or INSLO
Seattle	BLUIT
Southwest Florida Airports (RSW/FMY)	JOCKS KPASA Q118 LENIE or JOCKS KPASA Q116 CEEYA or JOCKS KPASA Q110 FEONA or JOCKS SMELZ Q106 GADAY or JOCKS SMELZ Q106 BULZI
Tampa Terminal Area	FEONA, BULZI or BRUTS Q118 LENIE or GULFR Q116 CEEYA or BULZI Q106 GADAY

\*MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

### **Catch Points for Airports Located Outside HAR Phase I Expansion Airspace**

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

Atlanta Terminal Area	Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA or Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVA or MEM or Aircraft through ZME airspace from ZID airspace west of a line from VHP to BWG, BNA or Aircraft through ZME airspace from ZID airspace east of a line from VHP to BWG, BWG or Aircraft through ZME airspace from ZFW airspace, MEM or MEI HONIE (RNAV)–STAR or PATYN HONIE (RNAV)–STAR
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Baltimore–Washington*	GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA or VUZ
Boston*	GEP, CRL, ECK, IIU, BNA or VUZ
Buffalo*	GEP, CRL
Hartford Bradley*	GEP, CRL
Canton–Akron*	GIJ, VHP, GEP
Charlotte	BNA, VUZ
Cincinnati Terminal Area	BNA, PXV or Aircraft north of SLC, JOT or Aircraft over or south of SLC, ENL or SLC or SFO departures, ENL, JOT
Cleveland Terminal Area*	OBK
Detroit Terminal Area	BAE MKG POLAR–STAR or VHP FWA MIZAR–STAR
Detroit Young	VHP FWA or LAN SPRTN–STAR
Indianapolis Terminal Area	BIB, SPI, JOT
Louisville	ENL, MEM
Newark*	GEP, VHP, FLM, IIU, BNA, VUZ or IOW GIJ J554 CRL J584 SLT FQM
New York Kennedy*	GEP, VHP, FLM, IIU, BNA, VUZ or DBQ J94 PMM J70 LVZ LENDY–STAR
New York LaGuardia*	GIJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ
Philadelphia Terminal Area*	GIJ, GEP, VHP, BAE, WHETT, BNA, VUZ
Pittsburgh Terminal Area*	VHP, GIJ, BAE, GEP
Pontiac	LFD, LAN, VHP, FWA, GEP
Providence	JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ
Raleigh–Durham	FLM, IIU, BNA, VUZ
Toronto Terminal Area	ECK, SVM, SSM, GEP
Teterboro*	GEP, VHP, CRL, BNA, VUZ
Washington Dulles/National*	GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ
White Plains*	GEP, VHP, CRL, FLM, IIU, BNA, VUZ
Willow Run*	LAN, LFD, VHP, FWA, GEP

\*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522, Q505, Q504, Q502, Q501

or

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP

or

Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

**Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace**

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Albuquerque Terminal Area	CURLY CURLY-STAR or ESPAN FRIHO-STAR or LAVAN LAVAN-STAR or FTI FRIHO-STAR or MIERA MIERA-STAR
Austin Terminal Area	Aircraft west of a north-south line at LFK, BLEWE or Aircraft east of a north-south line at LFK, IDU or LLO
Boca Raton, FL	CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or SZW INPIN SHDAY (RNAV)-STAR
Chicago Midway	CVA MOTIF-STAR or PIA MOTIF-STAR or DBQ CVA MOTIF-STAR or LMN MOTIF-STAR
Chicago O'Hare Terminal Area	GEP DLL MSN JVL JANESVILLE-STAR or TVC PULLMAN-STAR or FOD DBQ JVL JANESVILLE-STAR or MCW JANESVILLE-STAR or GCK IRK BRADFORD-STAR
Dallas/Fort Worth Terminal Area	IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM or Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW or Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS or Aircraft through ZME airspace from J52 and south of J52, SQS

Denver Terminal Area	OATHE DANDD-STAR
	or
	HGO QUAIL-STAR
	or
	LOPEC-STAR
	or
	ALS LARKS-STAR
	or
	HBU POWDR-STAR
	or
	EKR TOMSN-STAR
	or
	CHE TOMSN-STAR
	or
	BFF LANDR-STAR
	or
	LBF SAYGE-STAR
	or
	HCT SAYGE-STAR
	or
	RSK LARKS-STAR
	or
	LAA QUAIL-STAR
	or
	GCK J154 RYLIE DANDD-STAR
	or
	OCS J154 ALPOE RAMMS-STAR
	or
	YANKI J114 SNY LANDR-STAR
	or
	Aircraft filed BIL or east, MBW RAMMS-STAR
Ft Lauderdale or Ft Lauderdale Executive	CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR
	Aircraft through ZHU airspace remain south ZME and ZTL airspace
	or
Houston Bush	SZW HEVVN Q104 PIE SWAGS (RNAV)-STAR
	CRP, CVE, LLO, LUKIY, SAT
	or
	Aircraft south and east of LLA, JEPEG
	or
	MISLE Q40 AEX
	or
	Aircraft north and east of SJI, SJI
	or
	Aircraft east of PXV, PXV Q31 DHART SWB
	or
	Aircraft north and west of PXV, PROWL Q33 DHART SWB
Houston Hobby	CRP, ELLVR, SAT, SWB
	or
	Aircraft south and east of GIRLY, KCEEE
	or
	Aircraft north and east of SJI, SJI
	or
	BESOM Q38 ROKIT ROKIT-STAR
	or
	Aircraft east of PXV, PXV Q29 HARES SWB
	or
	Aircraft north and west of PXV, PROWL Q33 DHART SWB
Jacksonville	GADAY ZOOSS TAY
	Aircraft through ZHU airspace remain south of ZME and ZTL airspace
	or
	ZOOSS TAY

John Wayne–Orange County	HEC, PGS, BLD or Aircraft south of TBC from ZAB airspace, HIPPI
Kansas City Terminal Area	LMN BRAYMER–STAR or PWE ROBINSON–STAR or EMP JHAWK–STAR
Las Vegas	DILCO, LIDAT, IGM or Aircraft over PGA or north of PGA KSINO or Aircraft south of PGA PGS LYNSY
Los Angeles Terminal Area	Aircraft North of TBC, HEC, PGS or Aircraft South of TBC from ZAB airspace, HIPPI, MESSI
Miami Terminal Area	CEW DEFUN Q104 CYY DEEDS (RNAV)–STAR Aircraft through ZHU airspace remain south ZME and ZTL airspace or SZW HEVNV Q104 CYY DEEDS (RNAV)–STAR
Minneapolis Terminal Area	Aircraft from north, west, south, FAR GOPHER–STAR or RWF SKETR–STAR or ALO KASPR–STAR or BRD GOPHER–STAR or BAE EAU CLAIRE–STAR or FOD TWOLF–STAR
Memphis Terminal Area	ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD
Naples, FL	CEW DEFUN Q104 PLYER PIKKR (RNAV)–STAR Aircraft through ZHU AIRSPACE remain south of ZME and ZTL airspace or SZW HEVNV Q104 PLYER PIKKR (RNAV)–STAR
Nashville	CCT, GHM, GUITR, TINGS, VOLLS
New Orleans Terminal Area	BLUEZ, GPT, LCH, MCB, TBD, FATSO
Oakland	ILA or KATTS PAMMY or Aircraft over or south of a line ILC J16 DVC REANA KATTS PAMMY or Aircraft from north of ILC, JOPER PAMMY or KATTS PAMMY or Aircraft over or south of ILC, REANA KATTS PAMMY
Orlando Terminal Area	GADAY Q108 CLAWZ LEESE–STAR Aircraft through ZHU airspace remain south of ZME/ZTL airspace or OTK LEESE–STAR

Palm Beach, FL	CEW DEFUN Q112 INPIN GULLO (RNAV)–STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW INPIN GULLO (RNAV)–STAR
Phoenix	CORKR DRK or Aircraft from ZDV airspace, GUP or Aircraft from ZAB airspace, ZUN, MOHAK, SSO or VYLLA TUS
Phoenix Satellites	FLG, SSO, MOHAK or VYLLA, TUS
Portland, OR Terminal Area	ARNIT BONVL–STAR or LARNO BONVL–STAR or MOXEE MOXEE–STAR
St. Louis Terminal Area	SGF TRAKE–STAR or BUM TRAKE–STAR or ANX TRAKE–STAR or LMN IRK RIVRS–STAR or RBS VANDALIA–STAR
Salt Lake City Terminal Area	JNC J12 HELPR SPANE–STAR or EKR MTU SPANE–STAR or BCE DTA–TCH or MLF DTA–TCH or BVL BONNEVILLE–STAR or BYI BEARR–STAR or PIH BEARR–STAR or DBS BRIGHAM CITY–STAR or JAC BRIGHAM CITY–STAR or BPI BRIGHAM CITY–STAR or OCS BRIGHAM CITY–STAR
San Diego Terminal Area	EED, LAX, GBN
Santa Ana	HEC, PGS, BLD, HIPPI
San Antonio Terminal Area	IDU, CSI, JCT, LLO, CRP, LRD or West of a north–south line at LFK, BLEWE or East of a north–south line at LFK, IDU

San Francisco	FMG GOLDEN GATE–STAR
	or
	MVA MODESTO–STAR
	or
	ENI GOLDEN GATE–STAR
	or
	OAL MODESTO–STAR
San Jose	or
	South of a line ILC to DVC, REANA KATTS OAL MODESTO–STAR
	FMG HYP EL NIDO–STAR
	or
	OAL HYP EL NIDO–STAR
	or
	ENI GOLDEN GATE–STAR
Seattle Terminal Area	or
	South of a line ILC to DVC, REANA KATTS KICHI CANDA EL NIDO–STAR
	Aircraft From northeast, southeast, south, TEMPL GLASR–STAR
	or
	SUNED CHINS–STAR
	or
	BTG OLMYPIA–STAR
Southwest Florida Airports RSW and FMY	CEW DEFUN Q104 SWABE JOSFF–STAR
	Aircraft through ZHU airspace remain south of ZME and ZTL airspace
	or
	SZW HEVVN Q104 SWABE JOSFF–STAR
Tampa Terminal Area	CEW DEFUN Q104 HEVVN DARBS–STAR
	Aircraft through ZHU airspace remain south of ZME and ZTL airspace
	or
	SZW DARBS–STAR
Tucson	DRK PXR
	or
	MOHAK GBN

## VISUAL FLIGHT RULES (VFR) WAYPOINTS

VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Charts using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag. The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

## BALTIMORE–WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPAXI	_____	N38°34.57' /W076°20.38'
VPONX	_____	N39°06.65' /W076°55.92'
VPOOP	_____	N38°56.32' /W076°36.90'

## BOSTON HELICOPTER CHART

VPBAY	_____	N42°16.17' /W070°49.48'
VPBLT	_____	N42°19.67' /W070°53.40'
VPCGS	_____	N42°22.08' /W071°03.13'
VPEVS	_____	N42°23.52' /W071°04.10'
VPFEN	_____	N42°12.58' /W071°08.88'
VPFRE	_____	N42°25.03' /W071°12.32'
VPGLV	_____	N42°21.88' /W070°52.18'
VPHAM	_____	N42°30.13' /W071°07.15'
VPPIK	_____	N42°20.37' /W071°15.93'
VPQUA	_____	N42°12.10' /W071°04.78'
VPQUB	_____	N42°12.60' /W070°59.83'
VPSPF	_____	N42°24.20' /W071°09.47'
VPTOB	_____	N42°31.42' /W070°59.82'
VPWAN	_____	N42°36.88' /W071°19.45'

## BOSTON TERMINAL AREA CHART

VPCOH	Cohasset	N42°13.58' /W070°48.94'
VPCUT	Cuttyhunk Harbor	N41°25.50' /W070°55.03'
VPFRA	Framingham Shopping Center	N42°18.16' /W071°23.65'
VPHOL	Woods Hole	N41°31.06' /W070°40.60'
VPHUL	Hull	N42°18.20' /W070°55.30'
VPLPT	Nantucket Great Point	N41°23.41' /W070°02.78'
VPNED	Needham Towers	N42°18.51' /W071°14.64'
VPPEA	Peabody Shopping Center	N42°32.52' /W070°56.69'
VPROC	Rockingham Race Track	N42°46.29' /W071°13.57'
VPSCI	Scituate	N42°11.89' /W070°43.69'
VPTPT	Nantucket Third Point	N41°18.51' /W070°03.37'
VPTUC	Tuckernuck	N41°18.31' /W070°15.43'
VPWAK	Wakefield	N42°30.72' /W071°05.24'
VPWAN	Wang Towers	N42°36.88' /W071°19.45'

## CHARLOTTE SECTIONAL CHART

VPATO	_____	N34°37.37' /W076°31.47'
VPAVA	_____	N34°57.00' /W077°16.50'
VPBFE	_____	N32°16.38' /W080°47.50'
VPBRA	_____	N36°13.75' /W076°08.08'
VPGCE	_____	N36°03.90' /W076°36.42'
VPGHI	_____	N35°15.30' /W075°31.25'
VPGIO	_____	N35°32.50' /W076°37.33'
VPKJU	_____	N35°26.58' /W076°10.22'
VPLMN	_____	N34°55.43' /W077°46.42'
VPMAB	_____	N34°42.20' /W077°03.50'
VPNPO	ISLE OF PALMS	N32°47.78' /W079°46.45'
VPOKY	_____	N35°06.53' /W075°59.17'
VPREP	_____	N32°33.98' /W080°21.82'
VPRRS	_____	N33°25.45' /W079°07.60'
VPUMO	_____	N35°35.63' /W075°28.08'
VPWZO	_____	N36°00.87' /W075°40.07'
VPZIE	_____	N32°01.62' /W080°53.42'

## CHICAGO SECTIONAL CHART

WAYPOINT IDENT  
VPCOH

COLLOCATED VFR CHECKPOINT  
\_\_\_\_\_

LOCATION  
N31°49.35' / W081°51.07'

## DENVER TERMINAL AREA CHART/FLYWAY CHART

VPBEN  
VPFTG  
VPNIC

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\_\_\_\_\_  
NORTH INTERCHANGE

N39°44.28' / W104°26.00'  
N39°44.35' / W104°32.75'  
N39°58.90' / W104°59.27'

## HOUSTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT  
VPBWY  
VPDTN  
VPGLA  
VPGLB  
VPKTY  
VPPLN  
VPRSN  
VPSND  
VPSNT  
VPTNE  
VPTNW  
VPTRK

COLLOCATED VFR CHECKPOINT  
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LOCATION  
N29°46.25' / W095°09.24'  
N29°46.59' / W095°22.01'  
N30°08.32' / W095°06.62'  
N30°07.80' / W094°55.70'  
N29°47.05' / W095°44.92'  
N30°08.80' / W095°50.42'  
N29°30.00' / W095°41.00'  
N29°23.13' / W095°28.86'  
N29°49.29' / W094°53.94'  
N29°47.48' / W095°03.34'  
N29°47.06' / W095°33.81'  
N29°24.06' / W095°10.44'

## JACKSONVILLE SECTIONAL CHART

VPAFI  
VPAFY  
VPBEC  
VPCJA  
VPCKY  
VPCNY  
VPDAD  
VPDAR  
VPDFI  
VPDUT  
VPEAR  
VPEGV  
VPPFU  
VPGPE  
VPHAA  
VPHUC  
VPIWA  
VPJMY  
VPKER  
VPLEV  
VPLJA  
VPMIA  
VPTLH  
VPXZY  
VPYIW  
VPZIE

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DADE CITY  
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CLEARWATER BEACH  
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ST PETE BEACH  
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MIDWAY  
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LAKE PARKER  
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N31°49.35' / W081°51.07'  
N30°07.00' / W081°21.33'  
N29°46.25' / W081°15.10'  
N29°30.00' / W081°06.00'  
N28°46.50' / W082°34.00'  
N28°30.00' / W080°45.00'  
N28°22.57' / W082°11.25'  
N31°22.38' / W081°24.13'  
N29°00.17' / W081°20.85'  
N27°37.70' / W082°09.10'  
N27°58.67' / W082°49.83'  
N29°39.97' / W081°24.87'  
N28°57.08' / W081°00.33'  
N27°43.50' / W082°44.67'  
N30°04.02' / W083°40.02'  
N28°19.87' / W082°43.77'  
N31°48.33' / W081°25.85'  
N29°26.92' / W081°18.27'  
N28°04.00' / W081°56.00'  
N28°48.00' / W080°52.00'  
N29°00.00' / W080°51.00'  
N30°50.02' / W084°56.63'  
N30°32.70' / W083°52.22'  
N29°35.00' / W083°10.00'  
N30°42.28' / W081°27.25'  
N32°01.62' / W080°53.42'

## KANSAS CITY SECTIONAL CHART

VPAGO  
VPBEK  
VPDEN  
VPENE  
VPESSE  
VPFME  
VPGXY  
VPMBE  
VPMKE  
VPROV  
VPUTT

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N37°50.33' / W090°29.03'  
N37°15.07' / W092°30.67'  
N37°46.75' / W092°19.20'  
N37°44.75' / W091°55.78'  
N36°59.48' / W091°00.88'  
N37°41.00' / W092°38.33'  
N37°15.50' / W091°40.17'  
N37°11.08' / W090°27.92'  
N37°24.47' / W092°40.00'  
N38°01.72' / W091°12.81'  
N37°52.05' / W092°01.20'



## KANSAS CITY TERMINAL AREA CHART

## KLAMATH FALLS SECTIONAL CHART

## LOS ANGELES HELICOPTER CHART

SE, 08 APR 2010 to 03 JUN 2010

## LOS ANGELES SECTIONAL CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCNG	CONEJO GRADE US HWY 101	N34°12.54' / W118°59.61'
VPCSU	CSU CHANNEL ISLANDS	N34°09.76' / W119°02.53'
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71' / W119°10.39'
VPSTC	SATICOY BRIDGE	N34°16.62' / W119°08.34'

## LOS ANGELES TERMINAL AREA CHART/FLYWAY CHART

VPCNG	CONEJO GRADE US HWY 101	N34°12.54' / W118°59.61'
VPCSU	CSU CHANNEL ISLANDS	N34°09.76' / W119°02.53'
VPGETY	GETTY CENTER	N34°04.84' / W118°28.66'
VPLBP	BANNING PASS	N33°56.05' / W116°59.63'
VPLCC	CHAFFEY COLLEGE	N34°08.87' / W117°34.33'
VPLCP	CAJON PASS	N34°18.07' / W117°27.68'
VPLDL	DISNEYLAND	N33°48.72' / W117°55.13'
VPLDP	DANA POINT	N33°27.62' / W117°42.87'
VPLDS	DODGER STADIUM	N34°04.42' / W118°14.42'
VPLFX	91/605 INTERCHANGE	N33°52.38' / W118°06.08'
VPLGP	GRIFFITH PARK OBSERVATORY	N34°07.10' / W118°18.02'
VPLHF	110/405 FWYS	N33°51.42' / W118°17.10'
VPLHP	HUNTINGTON PIER	N33°39.32' / W118°00.25'
VPLKH	KING HARBOR	N33°50.75' / W118°23.88'
VPLLC	L.A. COLISEUM	N34°00.83' / W118°17.27'
VPLLM	LAKE MATHEWS	N33°50.58' / W117°26.85'
VPLMM	MAGIC MOUNTAIN	N34°26.20' / W118°36.28'
VPLMS	MILE SQUARE PARK	N33°43.40' / W117°56.77'
VPLPD	PRADO DAM	N33°53.40' / W117°38.48'
VPLPP	PACIFIC PALISADES	N34°02.13' / W118°32.15'
VPLQM	QUEEN MARY	N33°45.17' / W118°11.37'
VPLRB	ROSE BOWL	N34°09.67' / W118°10.05'
VPLRT	SANTA ANITA RACE TRACK	N34°08.45' / W118°02.65'
VPLSA	SANTA ANA CANYON	N33°52.03' / W117°42.68'
VPLSB	SANTA FE FLOOD BASIN	N34°07.72' / W117°57.30'
VPLSC	STATE COLLEGE	N33°52.97' / W117°53.13'
VPLSF	SAN FERNANDO RESERVOIR	N34°17.87' / W118°29.00'
VPLSP	SIGNAL PEAK	N33°36.33' / W117°48.63'
VPLSR	HAWTHORNE & 405 FREEWAY	N33°53.07' / W118°21.13'
VPLSS	SANTA SUSANA PASS	N34°16.00' / W118°38.43'
VPLTW	TUJUNGA WASH & FOOTHILL	N34°16.40' / W118°20.30'
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97' / W118°16.32'
VPLWT	WATER TANK	N34°10.82' / W118°46.27'
VPNEW	NEWHALL PASS	N34°20.18' / W118°30.72'
VPSTC	SATICOY BRIDGE	N34°16.62' / W119°08.34'

## MIAMI SECTIONAL CHART

VPACH	HOLLYWOOD BEACH	N26°00.92' / W080°06.93'
VPBOV	_____	N27°57.00' / W080°46.75'
VPCLC	_____	N26°27.07' / W082°00.88'
VPCTE	_____	N26°09.28' / W081°20.70'
VPDAD	DADE CITY	N28°22.57' / W082°11.25'
VPDUT	_____	N27°37.70' / W082°09.10'
VPDZE	_____	N27°19.00' / W080°44.17'
VPEAR	CLEARWATER BEACH	N27°58.67' / W082°49.83'
VPEDY	ANDYTOWN TOLLGATE	N26°08.78' / W080°28.00'
VPFAH	_____	N26°25.40' / W081°29.67'
VPGPE	ST PETE BEACH	N27°43.50' / W082°44.67'
VPHRO	_____	N27°05.97' / W082°12.20'
VPHUC	_____	N28°19.87' / W082°43.77'
VPIBR	_____	N27°12.47' / W081°40.22'
VPKER	LAKE PARKER	N28°04.00' / W081°56.00'
VPKOE	_____	N24°40.08' / W081°20.55'
VPLYV	_____	N24°49.07' / W080°49.17'
VPMB0	GULFSTREAM PARK	N25°58.57' / W080°08.17'
VPOBA	PUMPING STATION	N26°28.30' / W080°26.75'
VPRBI	_____	N25°50.67' / W080°55.18'
VPRNL	RANGER STATION	N25°22.92' / W080°36.58'
VPWMO	_____	N27°03.00' / W080°35.00'

## MIAMI TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPACH	HOLLYWOOD BEACH	N26°00.92' / W080°06.93'
VPEDY	ANDYTOWN TOLLGATE	N26°08.78' / W080°28.00'
VPMB0	GULFSTREAM PARK	N25°58.57' / W080°08.17'
VPOBA	PUMPING STATION	N26°28.30' / W080°26.75'
VPRBI		N25°50.67' / W080°55.18'
VPRNL	RANGER STATION	N25°22.92' / W080°36.58'

## NEW ORLEANS SECTIONAL CHART

VPGPT		N30°25.95' / W089°05.62'
VPLIP	PHILLIPS INLET	N30°16.23' / W085°59.25'
VPMAI		N30°50.02' / W084°56.63'
VPMOB		N30°23.00' / W088°31.72'
VPRAM		N30°18.95' / W089°35.88'
VPRER		N30°13.87' / W085°20.67'
VPRIV		N30°54.85' / W087°57.82'
VPSAW		N30°49.65' / W089°07.42'
VPTHR		N30°19.93' / W087°08.50'

## NEW YORK HELICOPTER CHART

VPJAY		N40°59.00' / W073°07.00'
VPLYD		N40°57.37' / W073°29.59'
VPROK		N40°52.70' / W073°44.24'

## PHOENIX TERMINAL AREA CHART/FLYWAY CHART

VPALL	ALLENVILLE	N33°20.97' / W112°35.20'
VPAQU	AQUEDUCT PUMPING STATION	N33°40.05' / W112°41.38'
VPARM	ARROWHEAD MALL	N33°38.52' / W112°13.48'
VPAWG	AHWATUKEE GOLF COURSE	N33°19.98' / W111°59.08'
VPAZM	ARIZONA MILLS	N33°23.43' / W111°57.88'
VPBAR	BARTLETT DAM	N33°49.10' / W111°37.92'
VPCCC	COUNTRY CLUB & CANAL	N33°30.73' / W111°50.37'
VPCNL	CANAL	N33°33.23' / W111°46.89°
VPFRB	FIREBIRD LAKE	N33°16.35' / W111°58.10'
VPFTN	FOUNTAIN HILLS	N33°36.12' / W111°42.72'
VPGLX	GILA CROSSING	N33°16.55' / W112°10.08'
VPGPP	GLENDALE POWER PLANT	N33°33.27' / W112°13.00'
VPMAR	MARICOPA	N33°03.42' / W112°02.88'
VPMHS	MESQUITE HIGH SCHOOL	N33°20.53' / W111°49.58'
VPNRV	NEW RIVER	N33°55.08' / W112°08.45'
VPNTT	NORTH TEST TRACK	N33°03.50' / W111°55.83'
VPPIR	PIR	N33°22.52' / W112°18.90'
VPQTR	QUINTERO GOLF COURSE	N33°49.53' / W112°23.58'
VPRVC	RIO VERDE COMMUNITY	N33°44.37' / W111°39.62'
VPSMC	SOUTH MOUNTAIN COLLEGE	N33°23.02' / W112°02.12'
VPSQP	SQUAW PEAK	N33°32.83' / W112°01.27'
VPSSS	SUPERSTITION SPRINGS MALL	N33°23.50' / W111°41.37'
VPSTN	SANTAN MOUNTAINS	N33°09.23' / W111°40.92'
VPSTT	SOUTH TEST TRACK	N32°56.25' / W111°59.67'
VPZZZ		N33°20.18' / W111°26.53'

## ST LOUIS TERMINAL AREA CHART/FLYWAY CHART

VPAGN	TV ANTENNA	N38°32.08' / W090°22.42'
VPBPE		N38°23.80' / W090°20.38'
VPCJY	HOLIDAY SHORES	N38°55.00' / W089°56.00'
VPCOJ	WINFIELD DAM	N39°00.28' / W090°41.23'
VPDFA	JEFFERSON BARRACKS BRIDGE	N38°29.18' / W090°16.47'
VPEAZ	BUSCH STADIUM	N38°37.43' / W090°11.55'
VPEDZ	WATER TANKS	N38°45.30' / W090°34.87'
VPEGR	GAS TANKS	N38°35.80' / W090°19.32'
VPEOX	ST PETERS	N38°47.17' / W090°39.25'

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPFAI	HOWELL ISLAND	N38°40.00'/W090°43.00'
VPFFY		N38°55.37'/W090°17.30'
VPGPF		N38°35.60'/W090°26.92'
VPGVI		N38°32.30'/W090°27.80'
VPHRQ	CHAIN OF ROCKS BRIDGE	N38°45.88'/W090°10.42'
VPIBO	WATERLOO	N38°20.00'/W090°09.00'
VPJMU	HORSESHOE LAKE	N38°41.00'/W090°05.00'
VPKNY	PACIFIC	N38°29.00'/W090°44.00'
VPLES	ST CHARLES	N38°47.00'/W090°30.00'
VPLIW	SIX FLAGS	N38°30.67'/W090°40.47'
VPLXU	GATEWAY ARCH	N38°37.50'/W090°11.00'
VPNSY	WOOD RIVER REFINERIES	N38°50.00'/W090°05.00'
VPNZY	WENTZVILLE	N38°48.83'/W090°50.98'
VPRAZ	JERSEYVILLE	N39°07.00'/W090°20.00'
VPRMO	FOREST PARK	N38°38.00'/W090°17.00'
VPWKO	COLUMBIA	N38°27.00'/W090°12.00'
VPXXI	MILLSTADT	N38°27.50'/W090°05.68'
VPYID	MOSENTHEIN ISLAND	N38°43.00'/W090°12.25'

### SALT LAKE CITY HELICOPTER CHART

VPAIR	SALTAIR	N40°44.85'/W112°11.22'
VPBEE	SOUTH INTERCHANGE	N40°38.18'/W111°54.23'
VPBRN	BARN	N40°54.28'/W112°10.15'
VPCAP	STATE CAPITOL	N40°46.67'/W111°53.25'
VPCHS		N40°42.28'/W112°05.92'
VPCOP	BINGHAM COPPER MINE	N40°31.38'/W112°09.00'
VPCWY	CAUSEWAY	N41°05.37'/W112°07.17'
VPCYN	PARLEYS CANYON	N40°42.67'/W111°48.10'
VPFPC	FREE PORT CENTER	N41°05.92'/W112°02.27'
VPFPK	FRANCIS PEAK	N41°01.98'/W111°50.30'
VPGFS	GARFIELD STACK	N40°43.28'/W112°11.88'
VPHVE	SPAGHETTI BOWL	N40°43.50'/W111°54.22'
VPJRT	JORDAN RIVER TEMPLE	N40°35.02'/W111°55.58'
VPKSL	KSL ANTENNA	N40°46.80'/W112°05.80'
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50'/W111°57.08'
VPMMT	MICROWAVE TOWERS	N40°48.50'/W111°53.37'
VPMSH		N41°01.67'/W112°02.47'
VPNSL		N40°50.15'/W111°54.90'
VPNTF		N41°03.57'/W112°14.23'
VPOGE	GRAIN ELEVATOR	N41°13.13'/W112°00.45'
VPOPS	POWER STATION	N41°20.38'/W112°02.78'
VPPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28'/W112°25.73'
VPPTM	POINT OF THE MOUNTAIN	N40°27.42'/W111°54.83'
VPVPO	PROVO CANYON	N40°18.77'/W111°39.45'
VPRWY		N40°48.48'/W112°00.33'
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83'/W111°54.85'
VPTIP	SOUTH TIP	N40°50.93'/W112°10.92'
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT		N40°38.00'/W112°03.33'

### SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

VPAIR	SALTAIR	N40°44.85'/W112°11.22'
VPBEE	SOUTH INTERCHANGE	N40°38.18'/W111°54.23'
VPBRN	BARN	N40°54.28'/W112°10.15'
VPCAP	STATE CAPITOL	N40°46.67'/W111°53.25'
VPCHS		N40°42.28'/W112°05.92'
VPCOP	BINGHAM COPPER MINE	N40°31.38'/W112°09.00'
VPVCI	CENTERVILLE INTERCHANGE	N40°55.30'/W111°53.43'
VPCWY	CAUSEWAY	N41°05.37'/W112°07.17'
VPCYN	PARLEYS CANYON	N40°42.67'/W111°48.10'
VPFPC	FREE PORT CENTER	N41°05.92'/W112°02.27'
VPFPK	FRANCIS PEAK	N41°01.98'/W111°50.30'
VPGFS	GARFIELD STACK	N40°43.28'/W112°11.88'

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPHVE	SPAGHETTI BOWL	N40°43.50'/W111°54.22'
VPJRT	JORDAN RIVER TEMPLE	N40°35.02'/W111°55.58'
VPKSL	KSL ANTENNA	N40°46.80'/W112°05.80'
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50'/W111°57.08'
VPMMT	MICROWAVE TOWERS	N40°48.50'/W111°53.37'
VPMSH	_____	N41°01.67'/W112°02.47'
VPNSL	_____	N40°50.15'/W111°54.90'
VPNTP	_____	N41°03.57'/W112°14.23'
VPOGE	GRAIN ELEVATOR	N41°13.13'/W112°00.45'
VPOPS	POWER STATION	N41°20.38'/W112°02.78'
VPPEP	STATE PRISON	N40°29.88'/W111°53.62'
VPPTT	PROMONTORY POINT	N41°12.28'/W112°25.73'
VPPTM	POINT OF THE MOUNTAIN	N40°27.42'/W111°54.83'
VPVPO	PROVO CANYON	N40°18.77'/W111°39.45'
VPRWY	_____	N40°48.48'/W112°00.33'
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83'/W111°54.85'
VP TIP	SOUTH TIP	N40°50.93'/W112°10.92'
VPUOU	U OF U EVENTS CENTER	N40°45.73'/W111°50.28'
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT	_____	N40°38.00'/W112°03.33'
VPZOO	HOGLE ZOO	N40°45.00'/W111°48.95'

### SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

VPLDP	DANA POINT	N33°27.62'/W117°42.87'
VPLSP	SIGNAL PEAK	N33°36.33'/W117°48.63'
VPOCN	_____	N33°14.15'/W117°26.63'
VPSBC	BARONA CASINO	N32°56.25'/W116°52.60'
VPSBL	_____	N33°05.18'/W117°18.55'
VPSBM	BLACK MOUNTAIN	N32°58.87'/W117°07.00'
VPSCF	_____	N32°48.55'/W117°09.17'
VPSCM	COWLES MOUNTAIN	N32°48.72'/W117°01.97'
VPSCP	CRYSTAL PIER	N32°47.77'/W117°15.42'
VPSCR	_____	N32°39.37'/W117°07.30'
VPSFB	IRON MOUNTAIN	N32°58.25'/W116°57.33'
VPSLJ	LAKE JENNINGS	N32°51.53'/W116°53.28'
VPSMB	_____	N32°45.57'/W117°12.22'
VPSMP	_____	N33°22.70'/W117°36.75'
VPSMS	MOUNT SOLEDAD	N32°50.40'/W117°15.10'
VPSMV	_____	N32°45.75'/W117°09.80'
VPSMW	MOUNT WOODSON	N33°00.52'/W116°58.23'
VPSOP	OTAY MESA PRISON	N32°35.82'/W116°55.28'
VPSOT	LOWER OTAY LAKE	N32°37.73'/W116°55.38'
VPSPL	SOUTH POINT LOMA	N32°39.90'/W117°14.55'
VPSPP	POWER PLANT	N33°08.25'/W117°20.23'
VPSQS	QUALCOMM STADIUM	N32°46.98'/W117°07.23'
VPSRT	DEL MAR RACE TRACK	N32°58.58'/W117°15.95'
VPSSM	SAN MIGUEL MOUNTAIN	N32°41.78'/W116°56.18'
VPSSV	SAN VICENTE ISLAND	N32°55.53'/W116°55.00'
VPSTP	TORREY PINES GOLF COURSE	N32°54.17'/W117°14.68'
VPSVA	_____	N33°11.48'/W117°16.38'

### SAN FRANCISCO SECTIONAL CHART

VPKBG	KINGSBURY GRADE	N38°58.75'/W119°53.20'
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### SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

VPALT	ALTAMONT PASS	N37°44.35'/W121°35.42'
VPANT	ANTIOCH BRIDGE	N38°01.45'/W121°45.02'
VPBBR	BENICIA BRIDGE	N38°02.50'/W122°07.45'
VPCL	CALAVERAS RESERVOIR	N37°28.16'/W121°48.93'
VPCBT	LAKE CHABOT	N37°43.68'/W122°06.94'
VPCOY	COYOTE HILLS	N37°32.50'/W122°05.06'
VPCQZ	CARQUINEZ BRIDGE	N38°03.66'/W122°13.52'
VPCRL	_____	N37°11.00'/W121°41.06'
VPCRY	CRYSTAL SPRINGS CAUSEWAY	N37°30.56'/W122°21.10'

## WAYPOINT IDENT

VPCSH  
VPDAM  
VPDLR  
VPDUB  
VPEMB  
VPGGF  
VPGIL  
VPHHH  
VPKGO  
VPLEX  
VPMID  
VPMOR  
VPMUM  
VPPAC  
VPPRU  
VPSAR  
VPSLA  
VPSTB  
VPSUN  
VPUTC  
VPWAL  
VPWAM  
VPWFR

## COLLOCATED VFR CHECKPOINT

CAL STATE UNIVERSITY  
DEL VALLE DAM  
  
DUBLIN  
EMBASSY SUITES  
GOLDEN GATE FIELDS  
GILROY  
HAMILTON  
KGO  
LEXINGTON RESERVOIR  
MID-SPAN SAN MATEO BRIDGE  
MORMON TEMPLE  
NUMMI PLANT  
  
PRUNEYARD  
SARATOGA  
SLAC/LINEAR ACCELERATOR  
STINSON BEACH  
SUNOL GOLF COURSE  
U.T.C.  
WALNUT CREEK  
  
CEMENT PLANT

## LOCATION

N37°39.52'/W122°03.52'  
N37°36.91'/W121°44.78'  
N37°07.00'/W121°47.06'  
N37°42.06'/W121°55.36'  
N37°26.05'/W121°53.83'  
N37°53.07'/W122°18.71'  
N37°01.37'/W121°33.99'  
N38°03.58'/W122°30.66'  
N37°31.58'/W122°06.10'  
N37°11.66'/W121°59.18'  
N37°36.28'/W122°11.81'  
N37°48.46'/W122°11.95'  
N37°29.56'/W121°56.58'  
N37°38.00'/W122°32.07'  
N37°17.33'/W121°56.01'  
N37°15.26'/W122°02.33'  
N37°24.75'/W122°14.35'  
N37°54.45'/W122°40.41'  
N37°34.85'/W121°53.23'  
N37°13.93'/W121°41.35'  
N37°53.78'/W122°04.30'  
N37°30.28'/W122°10.00'  
N37°30.88'/W122°12.26'

## TAMPA/ORLANDO TERMINAL AREA CHART/FLYWAY CHART

VPBOV  
VPCNY  
VPDAD  
VPDFI  
VPDUT  
VPEAR  
VPFFU  
VPGPE  
VPHUC  
VPKER  
VPLEV  
VPLJA

DADE CITY

CLEARWATER BEACH

ST PETE BEACH

LAKE PARKER

N27°57.00'/W080°46.75'  
N28°30.00'/W080°45.00'  
N28°22.57'/W082°11.25'  
N29°00.17'/W081°20.85'  
N27°37.70'/W082°09.10'  
N27°58.67'/W082°49.83'  
N28°57.08'/W081°00.33'  
N27°43.50'/W082°44.67'  
N28°19.87'/W082°43.77'  
N28°04.00'/W081°56.00'  
N28°48.00'/W080°52.00'  
N29°00.00'/W080°51.00'

## WASHINGTON SECTIONAL CHART

VPACE  
VPAXI  
VPBRA  
VPGCE  
VPWZO

N38°07.82'/W076°48.75'  
N38°34.57'/W076°20.38'  
N36°13.75'/W076°08.08'  
N36°03.90'/W076°36.42'  
N36°00.87'/W075°40.07'

# VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual. Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300 or 1000-3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

## ALABAMA

### VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Brookley (Mobile Downtown)</b> .....	112.8/BFM	G	313	1.68	On runup area for rwy 14. VOR grand receiver checkpoint OTS indef.
<b>Cairns AAF (Fort Rucker)</b> .....	111.2/OZR	G	066	1.0	On runup pad Twy F.
<b>Enterprise Muni.</b> .....	116.6/EDN	A/2000	341	7.4	Red/white twr.
<b>Monroeville (Monroe Co Arpt)</b> .....	116.8/MVC	G	196	0.6	Rwy 03 runup area/turnaround pad.
<b>Montgomery (Montgomery Rgnl/ Dannelly Field)</b> .....	112.1/MGM	G	318	6.2	On Twy C north of Twy A.
<b>Talladega Muni</b> .....	108.8/TDG	A/2000	084	9.0	Over center of segmented circle.
<b>Crimson (Tuscaloosa Rgnl)</b> .....	117.8/LDK	G	238	4.2	On centerline of Twy midway between ramp and rwy.

### VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Birmingham-Shuttlesworth Intl</b> .....	110.0	G	
<b>Huntsville Intl-Carl T Jones Fld</b> .....	111.0	G	

## FLORIDA

### VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Cypress (Naples Muni)</b> .....	108.6/CYY	G	121	0.6	On runup area Rwy 32.
<b>Crestview (Bob Sikes)</b> .....	115.9/CEW	A/1200	106	8.6	Over rotating bcn.
<b>Lakeland Linder Rgnl</b> .....	116.0/LAL	G	038	0.5	On NE end of Twy C.
	116.0/LAL	G	283	1.1	On Twy A-1.
<b>Melbourne Intl</b> .....	110.0/MLB	G	184	0.6	SW corner of arpt at intersection of Twy C and D.
<b>Ocala Intl-Jim Taylor Fld</b> .....	113.7/OCF	G	167	1.0	On taxiway E adjacent to E9.
<b>Orlando (Executive)</b> .....	112.2/ORL	G	324	.5	On Twy E near AER 13.
		G	311	.5	On Twy H near AER 13.
<b>Pahokee (Palm Beach Co Glades)</b> .....	115.4/PHK	A/1500	022	13	Over radio twr at intersection of 2 canals.
<b>Panama City-Bay Co Intl</b> .....	114.3/PFN	G	190	0.5	Main terminal ramp.

## VOR RECEIVER CHECK

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
		G	154	0.6	Rwy 32 run-up/Twy G.
		G	208	0.6	Rwy 5 run-up/Twy D.
<b>St. Petersburg–Clearwater Intl</b> .....	116.4/PIE	G	046	0.4	On circle located NE end of Twy M.
<b>Vero Beach Muni</b> .....	117.3/VRB	G	111	4.4	Runup area Rwy 29R.
		G	114	4	Compass rose on taxiway E.
		G	116	3.6	Runup area Rwy 11R.

## VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Daytona Beach Intl</b> .....	111.0	G	
<b>Jacksonville Intl</b> .....	111.0	G	Unuseable E of Twy F.
<b>Miami Intl</b> .....	112.0	G	
<b>Palm Beach Intl</b> .....	109.0	G	
<b>Tallahassee Rgnl</b> .....	111.0	G	
<b>Tampa Intl</b> .....	111.0	G	

## GEORGIA

## VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Athens</b> (Madison Muni) .....	109.6/AHN	A/2000	199	21	Over center of rwy.
<b>Athens</b> (Athens/Ben Epps) .....	109.6/AHN	G	284	0.5	Twy A2.
<b>Atlanta</b> (DeKalb–Peachtree) .....	116.6/PDK	G	004	0.5	On runup area Rwy 20L. VOR ground checkpoint unavailable.
		G	218	0.5	On runup area Rwy 02L and 02R.
<b>Brunswick</b> (Malcolm McKinnon) .....	109.8/SSI	A/1050	029	7.2	Over rotating bcn.
<b>Columbus Metropolitan</b> .....	117.1/CSG	G	146	7.1	FBO ramp in front of ASOS equipment.
<b>Dublin</b> (W H 'Bud' Barron) .....	113.1/DBN	G	270	7.6	Ramp.
<b>Foothills</b> (Toccoa RG Letourneau Fld) .....	113.4/ODF	A/2000	179	6	Over rotating bcn.
<b>Hunter</b> .....	111.6/SVN	A/1500	090	15.5	Over lighthouse.
<b>Hunter AAF</b> .....	111.6/SVN	G	271	1.2	On Twy 6.
<b>Lawson AAF</b> .....	111.4/LSF	G	356	.6	On painted circle at taxiway intersection 580' NW of twr.
<b>Macon</b> .....	114.2/MCN	A/2000	028	13.6	Over oil tank.
		A/2000	320	9.5	Over dam.
<b>Pecan</b> (Southwest Georgia Rgnl) .....	116.1/PZD	A/1000	145	9	Over rotating bcn E side of arpt.
<b>Rome</b> (Richard B Russel) .....	115.4/RMG	G	348	11.5	At intersection of twy 200' S of terminal building. VOR ground checkpoint unavailable.
<b>Savannah</b> .....	112.7/SAV	A/1500	097	19.6	Over red and white lighthouse.
<b>Valdosta Rgnl</b> .....	114.8/OTK	G	131	0.6	On taxiway at apch end rwy 35.
<b>Vienna</b> (Crisp County–Cordele) .....	116.5/VNA	A/1300	226	19	Over center of NE/SW rwy.
<b>Waycross–Ware Co</b> .....	110.2/AYS	A/1200	099	8	Over fire twr W side arpt.



## VOR RECEIVER CHECK VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Atlanta</b> (Hartsfield–Jackson Atlanta Intl) ..	111.0	G	
(Atlanta Muni) .....	111.0	G	VOT OTS indef.
<b>Brunswick Golden Isles</b> .....	111.0	G	
<b>Savannah/Hilton Head Intl</b> .....	111.0	G	

## KENTUCKY VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Central City</b> (Muhlenberg Co) .....	109.8/CCT	A/2500	153	10.6	Over intersection of Rwy 23 and central taxiway.
<b>Clarksville</b> (Campbell AAF) .....	110.6/CKV	G	307	4.9	On taxiway 6 center romeo helipad.
<b>Clarksville</b> (Hopkinsville–Christian Co) .....	110.6/CKV	A/2000	345	13.5	Over hangar.
<b>Fort Knox</b> (Godman AAF) .....	109.6/FTK	A/2000	270	9.2	W of Godman AAF over a 298 ft twr.
<b>Frankfort</b> (Capital City) .....	109.4/FFT	G	082	.7	Runup pad Rwy 24.
<b>London</b> (London–Corbin Arpt–Magee Fld) .....	116.1/L0Z	G	033	3.8	On parking ramp taxiway entry.
<b>Owensboro–Davies Co.</b> .....	108.6/OWB	G	176	.7	On taxiway at apch end Rwy 36.

## VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Louisville Intl–Standiford Fld</b> .....	111.0	G	

## VOR RECEIVER CHECK NORTH CAROLINA

### VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt.	Azimuth from Fac.	Dist. from Fac. N.M.	Checkpoint Description
		Gnd. AB/ALT			
<b>Barretts Mountain</b> (Hickory Rgnl) .....	110.8/BZM	A/2200	229	10.2	Over apch end Rwy 24.
<b>Cofield</b> (Tri-Co) .....	114.6/CVI	A/4500	259	15.3	Distance 20/25.
<b>Fayetteville Rgnl/Grannis Fld</b> .....	108.8/FAY	G	278	0.6	On runup area Rwy 04.
<b>Greensboro</b> (Lexington Muni) .....	116.2/GSO	A/2300	228	22	Over rotating bcn atop W end of building.
<b>Greensboro</b> (Piedmont Triad Intl) .....	116.2/GSO	G	036	3.5	On Twy M3. Checkpoint OTS indef.
<b>Greensboro</b> (Smith Reynolds) .....	116.2/GSO	A/2000	297	13.5	Over atct.
<b>Kinston Rgnl Jetport At Stallings Fld</b> .....	109.6/ISO	G	230	3.1	Twy A between A4 and A5.
<b>Raleigh-Durham Intl</b> .....	117.2/RDU	G	244	0.85	At end of taxiway to Rwy 05R.
<b>Sugarloaf Mountain</b> (Asheville Rgnl) .....	112.2/SUG	A/3200	280	13.6	Over atct. Airborne checkpoint unusable indef.
<b>Tar River</b> .....	117.8/TYI	A/1500	260	5.8	Over smoke stack at power house.

### VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Charlotte</b> (Charlotte/Douglas Intl) .....	112.0	G	
<b>Hickory Rgnl</b> .....	110.0	G	

## SOUTH CAROLINA

### VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt.	Azimuth from Fac.	Dist. from Fac. N.M.	Checkpoint Description
		Gnd. AB/ALT			
<b>Charleston AFB/Intl</b> .....	113.5/CHS	G	225	.7	Runup pad Rwy 03.
	113.5/CHS	G	009	.5	Runup pad Rwy 21.
	113.5/CHS	G	337	1.2	Runup pad Rwy 15.
	113.5/CHS	G	331	0.3	Runup area for Rwy 33.
<b>Electric City</b> (Anderson Rgnl) .....	108.6/ELW	G	039	5.5	On ramp in front of terminal bldg.
<b>Grand Strand</b> .....	117.6/CRE	A/1100	238	6	Over white water tank.
	117.6/CRE	G	213	0.7	On runup pad Rwy 05.
<b>Greenwood Co</b> .....	115.5/GRD	G	250	.7	End of taxiway at Rwy 09

### VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Charleston AFB/Intl</b> .....	111.0	G	

# VOR RECEIVER CHECK TENNESSEE

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## VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Hinch Mountain</b> (Crossville Memorial-Whitson Fld) .....	117.6/HCH	A/2900	336	11	Over metal hangar.
	117.6/HCH	G	335	11.5	Runup area between taxiway and rwy at center of fld.
<b>Holston Mountain</b> (Tri-Cities Rgnl TN/VA) ...	114.6/HMV	G	286	13.7	On ramp S of terminal building.
<b>Jackson</b> (McKellar-Sipes Rgnl) .....	112.0/MKL		256	0.6	At south end of ramp at fire station.
<b>Nashville</b> (Lebanon Muni) .....	114.1/BNA	A/2000	082	18	Over midfield.
<b>Tulahoma Rgnl/Wm Northern Fld</b> .....		A/1800	003	5.0	Over Normandy Dam.

## VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Knoxville</b> (McGhee-Tyson) .....	112.0	G	
<b>Memphis Intl</b> .....	111.0	G	
<b>Nashville Intl</b> .....	108.6	G	
<b>Smyrna</b> .....	110.2	G	

## PUERTO RICO

## VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Borinquen</b> (Rafael Hernandez) .....	113.5/BQN	G	271	2.2	On apch end of Rwy 08.

## VIRGIN ISLANDS

## VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Saint Thomas</b> (Cyril E. King) .....	108.6/STT	G	118	3.5	On taxiway North of Main ramp. VOR gnd checkpoint unusable.

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The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations, Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower or ARTCC.

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

To qualify for charting, a jump area must meet the following criteria:

- (1) Be in operation for at least 1 year.
- (2) Operate year round (at least on weekends).
- (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
<b>ALABAMA</b>			
Allen Army Heliport .....	11 NM; 253° Wiregrass .....	12,500	1 NM radius. SR-SS weekends and holidays.
(c) Bayou La Batre, Roy E.Ray Arpt.....	12 NM; 217° Brookley .....	12,500	Daily SR-SS
Bessemer, Old Bessemer Arpt .....	16 NM; 057° Brookwood .....	10,000	1030-SS weekends
(c) Cullman, Folsom Fld Arpt .....	36 NM; 001° Vulcan .....	14,500	3 NM radius. SR-SS Sat-Sun, other times by NOTAM.
(c) Dothan, Hatch Army Heliport .....	10.3 NM; 290° Wiregrass .....	12,500 AGL	1 NM SR-SS weekends and holidays.
(c) Elberta, Horak Arpt .....	11 NM; 268° Saufley .....	14,000	Daily 0700-1/2 hour after SS.
Ellis Drop Zone .....	15 NM; 220° Decatur .....	1,500	0.4 NM radius. Occasional use
Eutaw Muni Arpt .....	30 NM; 200° Crimson .....	13,000 AGL	Weekends and holidays
Gadsden, Northeast Alabama Rgnl Arpt..	3 NM; 230° Gadsden .....	14,000	Weekends and holidays 0900-SS.
Harvest, Epps Arpk .....	9 NM; 297° Rocket .....	13,500	Daily SR-SS
(c) Hazel Green .....	7 NM; 355° Rocket .....	14,000	7 NM radius. Daily SR-SS. Occasional night use.
Headland Muni Arpt .....	8 NM; 070° Wiregrass .....	15,000	Weekdays 1200-SS; Sat-Sun, and holidays SR-SS
Jones Drop Zone .....	6 NM; 276° Rocket .....	1,500	0.25 NM radius. Occasional use
Kilby Drop Zone .....	13 NM; 014° Montgomery .....	1,500	0.2 NM radius. Occasional use
Moundville Arpt .....	18 NM; 198° Tuscaloosa .....	12,000 AGL	5 NM radius. 0900-SS on weekends, occasionally weekdays by Notam.
Pinson, Industrial Park .....	12 NM; 085° Vulcan .....	10,500	0800-SS Sat-Sun, occasionally weekday and ngt use.
Prattville-Grouby Fld Arpt .....	17 NM; 300° Montgomery .....	2,000	10NM radius. For specific times call 334-953-7325.
Redstone Drop Zone .....	9 NM; 220° Rocket .....	1,500	0.2 NM radius. Occasional use
Renda Drop Zone .....	8 NM; 234° Talledega .....	1,500	0.25 NM radius. Occasional use
Tac Runkle Drop Zone .....	19 NM; 280° Cairns .....	3,500 AGL	Occasional use
Tommy Drop Zone .....	17 NM; 235° Montgomery .....	1,500	0.2 NM radius. Occasional use
(c) Tuskegee, Moton Fld Muni .....	2 NM; 198° Tuskegee .....	12,500	3 NM radius. Occasionally on weekends.
Vincent .....	37 NM; 130° Vulcan .....	10,000	5 NM radius. Weekends 0900-SS.
Warrior .....	11 NM; 350° Vulcan .....	12,500	Daily SR-SS
Weaver, McIlinn Arpt .....	15 NM; 047° Talladega .....	12,500	1 NM radius. Daily SR-SS, occasional night use.
(c) Wetumpka Muni .....	18 NM; 356° Montgomery .....	10,000	Daily SR-SS
<b>FLORIDA</b>			
Arcadia Muni .....	23 NM; 311° Labelle .....	15,000	5 NM radius. SR-SS daily, occasional ngt use.
Avon Park Executive Arpt .....	30 NM; 138° Lakeland .....	4,000	4 NM radius. Daily SR-SS
Brandon, Sod Farm .....	16 NM; 255° Lakeland .....	15,000	0830-1830 weekends
Chassahowitzka Drop Zone .....	38 NM; 010° St. Petersburg .....	4,000	0.25 NM radius. Occasional use

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
(c) Clewiston, Airglades Arpt .....	19 NM; 097° LaBelle .....	13,500	1 NM radius. Daily SR-SS
(c) Coleman, Freeflight Arpt .....	24 NM; 155° Ocala .....	15,000	3 NM radius. Daily SR-SS.
(c) Deland Muni-Sidney H Taylor Fld ....	17 NM; 210° Ormond Beach .....	15,000	1 NM radius. SR-SS Sat, Sun, occasionally weekdays.
Englewood, Buchan Arpt .....	27 NM; 158° Sarasota .....	15,000 AGL	2 NM radius. Sunday 1000-SS
Florabama Drop Zone .....	16 NM; 216° Saufley .....	14,000	2 NM radius. Fri-Sun 0830-SS.
(c) Homestead General Aviation .....	22 NM; 218° Dolphin .....	15,000	5 NM radius. 24 hrs daily.
Jacksonville, Herlong Arpt .....	15 NM; 255° Craig .....	15,000	1 NM radius. Daily SR-SS with prior notification to JAX APP CON.
Key West .....	1 NM; 095° Key West .....	7,000	0.2 NM radius. Occasional use.
(c) La Belle, Sundance Farms Arpt .....	5.4 NM; 245° La Belle .....	12,500	1 NM radius. Daily SR-SS.
(c) Lake Wales Muni .....	21 NM; 104° Lakeland .....	18,000	7 NM radius, 24 hrs daily. <b>Miami Center 127.2</b>
(c) MacDill AFB .....	11 NM; 110° St. Petersburg .....	10,000	0600-1100 Sun. Over Rwy 31
(c) Melanie's Arpt .....	24 NM; 075° Crestview .....	13,000	3 NM radius. SR-SS Sat-Sun, holidays and other times by NOTAM.
(c) Myakka City .....	18 NM; 097° Sarasota .....	12,500	5 NM radius, 24 hrs daily
(c) New Smyrna Beach, Massey Ranch Airpark .....	22 NM; 150° Ormond Beach .....	15,000	1 NM radius SR-SS weekends, occasionally weekdays.
(c) Palatka Muni-Lt. Kay Larkin Fld ....	36 NM; 079° Gainesville .....	12,500	3 NM radius. Daily, SR-SS
(c) Pahokee, Palm Beach Co Glades Arpt .....	at Pahokee .....	17,500	3 NM radius, 0800-1800 daily.
(c) Quincy Muni Arpt .....	10 NM; 288° Seminole .....	15,000	Daily SR-SS
St. Augustine .....	35 NM; 159° Craig .....	12,500	Sat-Sun occasionally weekdays
(c) Sebastian Muni .....	8 NM; 001° Vero Beach .....	14,000	2.5 NM radius. Daily SR-SS.
(c) Shell Creek Airpark .....	27.5 NM; 347° Lee County .....	13,000	1 NM radius. SR-SS weekends, holidays.
(c) Sugar Loaf Shores Arpt .....	13 NM; 071° Key West .....	14,000	2 NM radius. SR-SS.
Sun City .....	22 NM; 123° St. Petersburg .....	12,500	
(c) Titusville, Arthur Dunn Air Park .....	33 NM; 341° Melbourne .....	13,500	1 NM radius, SR-SS daily.
(c) Umatilla Muni Arpt .....	29 NM; 327° Orlando .....	13,000 AGL	2 NM radius. SR-SS. Occasional night use.
Wakulla Co Arpt .....	35 NM; 180° Seminole .....	13,500	3 NM radius. SR-SS weekends occasionally weekdays.
(C) Williston Muni Arpt .....	22 NM; 210° Gators .....	11,000	<b>Tallahassee Rgnl Tower 135.8</b>
(c) Zephyrhills Muni .....	16 NM; 330° Lakeland .....	20,000	2.5 NM radius. SR-SS Fri, Sat and Sun. <b>Jacksonville Center 118.6</b>
<b>GEORGIA</b>			
Bunker Hill Drop Zone .....	10 NM; 233° Harris .....	8,000	1 NM radius. SR-1 hr after SS daily, irregular intervals. Mass military jumps from multiple acft.
(c) Cedartown, Polk Co Arpt-Cornelius Moore Fld .....	9 NM; 188° Rome .....	15,000	3 NM radius. SR-SS daily, occasionally nights.
Claxton-Evans Co Arpt .....	33.6 NM; 276° Savannah .....	7,500	0900-SS Sat and Sun
(c) Dahlonga, Lumpkin County Arpt, Wimpy Drop Zone .....	23 NM; 193° Harris .....	15,000	1 NM radius. SR to 1 hr after SS daily irregular intervals. Mass military jumps from multiple acft.
Dahlonga Highway 76 Drop Zone .....	11 NM; 231° Harris .....	3,000	Occasional use.
Fort Benning, Box Spring Drop Zone ....	24.5 NM; 116° Columbus .....	3,000	Occasional use.
Fort Benning, Eelbeck Drop Zone .....	17.5 NM; 131° Columbus .....	3,000	Occasional use.
(c) Fort Benning, EuBanks Drop Zone ....	16 NM; 171° Columbus .....	12,500	Daily 0500-1900
(c) Fort Benning, Fryar Field Drop Zone .....	22.5 NM; 168° Columbus .....	13,000	0.5 NM radius, Continuous.
(c) Fort Benning, Gardner Drop Zone ....	17 NM; 171° Columbus .....	12,500	Daily 0500-1900
Fort Benning, Lawson AAF (Fort Benning) .....	1.8 NM; 046° Lawson .....	12,500	1 NM radius. Daily SR-SS
Fort Benning, Lae Drop Zone .....	21 NM; 166° Columbus .....	3,000	Occasional use
Fort Benning, Ledo Drop Zone .....	14 NM; 090° Lawson .....	3,000	Occasional use
Fort Benning, McKenna Drop Zone .....	10 NM; 080° Columbus .....	3,000	Occasional use
(c) Fort Benning, York Drop Zone .....	16 NM; 172° Columbus .....	12,500	Daily 0500-1900
Fort Valley, Miami Valley Farms Arpt ....	12 NM; 220° Macon .....	14,000	1 NM radius, Daily 0900-SS
Locust Grove, Mallards Landing Arpt .....	17.5 NM; 118° Atlanta .....	13,500	Sat, Sun and holidays SR-SS. Occasional ngt jumps
(c) Monroe-Walton Co Arpt .....	22 NM; 242° Athens .....	13,500	5 NM radius. Daily 0800-2100.
Plantation Airpark, Moore Drop Zone ....	36 NM; 332° Savannah .....	1,500 AGL	1 NM radius. Occasional use. Mass Military jumps from multiple acft.
(c) Rome, Richard B. Russell Arpt .....	11.3 NM; 349° Rome .....	15,000	5 NM radius. SR-SS Weekends.
St Marys Arpt .....	19 NM; 203° Brunswick .....	12,000	2 NM radius. Daily 0700-1859.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
Thomaston-Upson Co .....	35 NM; 296° Macon .....	14,500	1 NM radius. Sat-Sun occasionally weekdays.
Tifton, Henry Tift Myers, Arpt .....	1 NM; 090° Tift Myers .....	15,000	5 NM radius. Daily 0700-1800.
Waycross-Ware Co Arpt .....	8 NM; 100° Waycross .....	12,500	1 NM radius. Daily 1000-1600
Wilscott Drop Zone .....	14 NM; 245° Harris .....	8,000	1 NM radius. SR to 1 hr after SS daily, irregular intervals. Mass military jumps from multiple acft.

## KENTUCKY

Elizabethtown, Addington Fld .....	12 NM; 285° New Hope .....	11,000	3 NM radius, SR-SS Weekends and noon-SS weekdays.
Elkton, Standard Fld .....	16 NM; 045° Clarksville .....	12,000	5 NM radius. Continuous.
(c) Flemingsburg, Fleming Mason Arpt ..	27 NM; 103° Falmouth .....	12,500	1 NM radius. SR-SS Sat-Sun and holidays.
Ft. Campbell, Bastogne Drop Zone .....	8 NM; 274° Clarksville .....	3,000	0600-2330 Mon-Fri and occasional weekends. Military use.
Ft. Campbell, Corregidor Drop Zone .....	11 NM; 270° Clarksville .....	3,000	0600-2330 Mon-Fri and occasional weekends. Military use.
Ft. Campbell, Los Banos Drop Zone .....	10 NM; 270° Clarksville .....	3,000	0600-2330 Mon-Fri and occasional weekends. Military use.
Ft. Campbell, Suckchon Drop Zone .....	10 NM; 270° Clarksville .....	3,000	0600-2330 Mon-Fri and occasional weekends. Military use.
Glasgow Muni Arpt .....	24 NM; 073° Bowling Green .....	8,000	5 mi radius. SR-SS weekends and holidays
(c) Greenville, Muhlenberg Co Arpt .....	10 NM; 149° Central City .....	13,500	5 mi. radius. Daily SR-SS.
	7 NM; 149° Central City .....	2,000	2 NM radius. Intermittent. Military use.
(c) Hopkinsville-Christian Co .....	14 NM; 352° Clarksville .....	14,500	3 NM radius, 0900-1600 Tue-Fri; occasional weekends.
Owensboro, Windy Hollow Drag Strip .....	6 NM; 205° Owensboro .....	8,000	2 NM radius. 0800-SS Sun, holidays occasionally other times

## NORTH CAROLINA

(c) Cherry Point, Cannon Drop Zone .....	9 NM; 184° Cherry Point Tacan ..	10,500	3 NM radius. Weekends and holidays, occasional use weekdays.
Erwin Arpt .....	22 NM; 030° Fayetteville .....	4,500	1 NM radius. Sat & Sun afternoons
(c) Fayetteville, Southern Comforts Arpt ...	9 NM; 220 Fayetteville .....	14,000	3 NM radius. Fri-Mon and holidays SR-SS.
Greensboro, Southeast Greensboro Arpt ....	18 NM; 115° Greensboro .....	12,000	1 NM radius. 0800-2000 Sat and Sun.
	8 NM; 339° Liberty .....	11,000	3 NM radius. 0800-1600 Fri-Sun.
Greenville .....	22 NM; 040° Kinston .....	15,500	Daily SR-SS.
(c) Jonesville, Swan Creek Arpt .....	27 NM; Barretts Mountain .....	15,000	3 NM radius. SR-SS daily, occasional night.
(c) Louisburg, North Raleigh .....	22 NM; 060° Raleigh-Durham .....	15,500	30 min before SR-30 min after SS daily. Occasional ngt.
(c) Luzon Drop Zone .....	13 NM; 152° Sandhills .....	17,500	0600-1900 Daily.
Mackall AAF .....	11 NM; 150° Sandhills .....	17,500	Continuous.
(c) Maxton, Laurinburg-Maxton Arpt .....	26 NM; 250° Fayetteville .....	13,500	0800-1700 Mon-Fri.
Mebane, Kimrey Arpt .....	29 NM; 296° Raleigh/Durham .....	12,000	1 NM radius. 0900-SS Weekends; occasionally other times.
Pinebluff .....	8.75 NM; 143° Sandhills .....	12,500	Sat, Sun and holidays. Weekdays on request.
(c) PK Airpark .....	17 NM; 280° Fayetteville .....	12,500 AGL	Continuous.
(c) Rocky Mount .....	9.5 NM; 285° Tar River .....	12,500	Sat, Sun and holidays 0900-SS.
Southport, Brunswick Co .....	27.2 NM; 209° Wilmington .....	12,000	3 NM radius. 0800-2100 daily.
Thomasville, Fairgrove Arpt .....	13 NM; 201° Greensboro .....	14,000	Weekends and holidays.
(c) Wallace, Henderson Fld .....	23 NM; 351° Wilmington .....	15,000 AGL	3 NM radius. Sat-Sun SR-SS.
Washington, Warrenn Fld .....	27.6 NM; 069° Kinston .....	14,999 AGL	2 NM radius. SR-SS daily, occasional night use.

## SOUTH CAROLINA

(c) Barnwell Rgnl Arpt .....	15 NM; 343° Allendale .....	12,500	Daily SR-SS.
Beaufort County Arpt .....	38.25 NM; 067° Savannah .....	10,000	1.0 NM radius. Sat, Sun and holidays SR-SS.
(c) Chester Catawa Rgnl Arpt .....	16.5 NM; 223° Fort Mill .....	13,500 AGL	1 NM radius. Daily 0800-SS.
Clemson-Oconee Co. Arpt .....	14 NM; 343° Electric City .....	12,000	Daily SR-SS.
Columbia, Fort Jackson .....	10 NM; 020° Columbia .....	10,000	1 NM radius. Weekends, occasional weekdays.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
(c) Green Sea Arpt.....	25 NM; 330° Grand Strand.....	15,000	3 NM radius. Weekends and occasional weekdays SR-SS.
(c) Loris, Twin City Arpt.....	15 NM; 340° Grand Strand.....	12,000	Weekends, holidays 0800-SS.
(c) North AF Aux Arpt .....	15 NM; 186° Columbia.....	2,000	½ NM radius. Mon-Fri 0800-2200. Military personnel and heavy equipment.
St George Arpt.....	17 NM; 192° Vance.....	17,900	SR-1 hr after SS.
Timmonsville, Huggins Arpt .....	14 NM; 247° Florence .....	12,500	Daily SR-SS.
(c) Walterboro, Lowcountry Rgnl Arpt ...	30.5 NM; 275° Charleston .....	12,500 AGL	Weekends.
<b>TENNESSEE</b>			
Campbell Co. ....	28.9 NM; 336° Volunteer.....	13,500	2 NM radius. 0800-one hr byd SS.
Chattanooga .....	13 NM; 087° Choo Choo .....	10,000	Continuous.
Clarksville, Outlaw Fld.....	Over Clarksville.....	14,000 AGL	4 NM radius. Daily SR-SS, occasional ngts.
Crossville Meml-Whitson Fld.....	11.5 NM; 335° Hitch Mountain ..	14,500	1 NM radius. Daily SR-1 hr after SS, occasional nights.
(c) Dunlap .....	30 NM; 335° Choo Choo .....	9,000	5 NM radius. SR-SS Daily.
Fort Campbell, Son Drop Zone.....	4.1 NM; 302° Clarksville.....	12,500	Daily.
Livingston Arpt .....	13 NM; 212° Livingston .....	12,500	Weekends.
(c) Paris, Henry Co. ....	44.3 NM; 357° Jacks Creek .....	13,500	5 NM radius. Daily SR-SS.
Sevierville, Seymour Airpark.....	10 NM; 133° Volunteer.....	13,500	3 NM radius. Weekends SR-SS.
(c) Somerville, Wings .....	26 NM; 210° McKellar.....	14,000 AGL	2 NM radius. Weekends 0700-SS. Occasional ngt jumps.
Tullahoma Rgnl Arpt/WM Northern Fld ...	14.1 NM; 139° Shelbyville .....	15,000	5 NM radius. SR-SS primarily weekends with occasional nights.
Whifferrill.....	25 NM; 303° Nashville	11,500	2 NM radius. Weekends SR-SS.
<b>PUERTO RICO</b>			
(c) Arecibo, Antonio/Nery/Juarbe Pol Arpt .....	25 NM; 105° Borinquen .....	12,500	0600-1800 weekends & holidays.
(c) Humacao Arpt .....	20.9 NM; 159° San Juan .....	15,000	2.5 NM radius. Weekends SR-SS, occasionally holiday SR-SS.
<b>VIRGIN ISLANDS</b>			
St. Croix, Ordinance Drop Zone.....		2,000	0700-1400 Mon-Fri. 5 NM radius from 17°49'N 064°52'W.
St. Thomas, Cyril E. King No. 1 .....	6.5 NM; 118° St. Thomas .....	15,000	
St. Thomas, Cyril E. King No. 2 .....	10.4 NM; 110° St. Thomas .....	15,000	



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The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown — route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

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## ATLANTA SECTIONAL

### 84th Edition, 11 Mar 2010

#### OBSTRUCTIONS

**8 Apr 2010** Add obst 832' MSL (290' AGL) UC, 32°58'30"N, 86°37'02"W.  
Add obst 926' MSL (409' AGL) UC, 33°53'37"N, 86°43'02"W.  
Add obst 1007' MSL (492' AGL) UC, 32°58'56"N, 86°51'02"W.  
Add obst 1048' MSL (423' AGL) UC, 34°45'28"N, 87°30'06"W.

#### AIRPORTS

**8 Apr 2010** Change RP 8 to RP 28 at COVINGTON arpt, 33°37'56"N, 83°50'50"W.

#### NAVAIDS

**8 Apr 2010** No Major Changes.

#### AIRSPACE

**8 Apr 2010** Change BIRMINGHAM Class C freq from 385.6 to 256.8.

#### SPECIAL USE AIRSPACE

**8 Apr 2010** No Major Changes.

#### MILITARY TRAINING ROUTES

**8 Apr 2010** No Major Changes.

#### MISCELLANEOUS

**8 Apr 2010** No Major Changes.

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## ATLANTA TERMINAL AREA CHART

### 81st Edition, 11 Mar 2010

#### OBSTRUCTIONS

**8 Apr 2010** No Major Changes.

#### AIRPORTS

**8 Apr 2010** No Major Changes.

#### NAVAIDS

**8 Apr 2010** No Major Changes.

#### AIRSPACE

**8 Apr 2010** No Major Changes.

#### SPECIAL USE AIRSPACE

**8 Apr 2010** No Major Changes.

#### MILITARY TRAINING ROUTES

**8 Apr 2010** No Major Changes.

#### MISCELLANEOUS

**8 Apr 2010** No Major Changes.

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**CG-21 WORLD AERONAUTICAL CHART****40th Edition, 24 Sep 2009****OBSTRUCTIONS****22 Oct 2009** Add obst 1348' MSL (600' AGL), 34°15'06"N, 84°59'12"W.

Change obst from 312' MSL to 1312' MSL, 33°35'33"N, 083°58'31"W.

**17 Dec 2009 – 8 Apr 2010** No Major Changes.**AIRPORTS****22 Oct 2009** Change elevation from 191' to 1911' at Blairsville arpt, 34°51'16"N, 083°59'50"W.

Change runway orientation to 01/19 at Halifax-Northhampton Co Rgnl arpt, 36°19'47"N, 077°38'07"W.

**17 Dec 2009 – 8 Apr 2010** No Major Changes.**NAVAIDS****22 Oct 2009 – 8 Apr 2010** No Major Changes.**AIRSPACE****22 Oct 2009 – 8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 8 Apr 2010** No Major Changes.

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## CHARLOTTE SECTIONAL

### 87th Edition, 14 Jan 2010

**OBSTRUCTIONS****11 Feb 2010** No Major Changes.**8 Apr 2010** Add obst 371' MSL (310' AGL) UC, 36°15'27"N, 77°30'00"W.

Add obst 339' MSL (310' AGL) UC, 34°26'57"N, 78°13'23"W.

Add obst 381' MSL (300' AGL) UC, 34°04'47"N, 78°48'40"W.

Add obst 1247' MSL (1168' AGL), 35°33'11"N, 77°36'05"W.

**AIRPORTS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**NAVAIDS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**AIRSPACE**

**11 Feb 2010** Revise Atlantic Low Offshore Airspace Area: That airspace extending upward from 5,500 feet MSL bounded on the east by the Moncton FIR and the New York Oceanic CTA/FIR, on the south by 34°00'44"N, on the west and north by a line 12 miles from and parallel to the U.S. shoreline, excluding Federal airways and the East Coast Low offshore airspace area; and that airspace extending upward from 1,700 feet MSL within the portion of the Atlantic Low offshore airspace area that lies between a line drawn 12 miles from and parallel to the U.S. shoreline and a line drawn 20 miles from and parallel to the U.S. shoreline.

Revise South Florida Low Offshore Airspace Area: That airspace extending upward from 2,700 feet MSL bounded on the west by the Houston Oceanic CTA/FIR; bounded on the north from west to east by the Jacksonville Air Route Traffic Control Center boundary, a line 12 miles from and parallel to the U.S. shoreline and lat. 34°00'00"N., bounded on the east by the New York Oceanic CTA/FIR and the San Juan Oceanic CTA/FIR; bounded on the south from east to west by the Santo Domingo FIR, the Port-Au-Prince CTA/FIR and the Havana CTA/FIR; excluding the Grand Bahama TCA and the Nassau TCA; and that airspace extending upward from 1,300 feet MSL within the portion of the South Florida Low that lies between a line drawn 12 miles from and parallel to the U.S. shoreline and a line drawn 20 miles from and parallel to the U.S. shoreline, along the full length of the South Florida Low and extending around the Marquesas Keys, but excluding the Dry Tortugas Islands.

Revise Albemarle, NC Class D: That airspace extending upward from the surface to and including 3,100 feet MSL within a 5.8-mile radius of Stanly County Airport and within 1.5 miles each side of the 037° bearing from Stanly County Airport to 7.8 miles Northeast. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective date and time will thereafter be continuously published in the Airport/Facility Directory.

**8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****11 Feb 2010** No Major Changes.**8 Apr 2010** Change MEF 0° to 0°4' in quadrant 35°30'–36°00'N, 77°30'–78°00'W.

## CHARLOTTE TERMINAL AREA CHART

### 42nd Edition, 14 Jan 2010

**OBSTRUCTIONS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**AIRPORTS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**NAVAIDS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**AIRSPACE**

**11 Feb 2010** Revise Albemarle, NC Class D: That airspace extending upward from the surface to and including 3,100 feet MSL within a 5.8-mile radius of Stanly County Airport and within 1.5 miles each side of the 037° bearing from Stanly County Airport to 7.8 miles Northeast. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective date and time will thereafter be continuously published in the Airport/Facility Directory.

**8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****11 Feb 2010 – 8 Apr 2010** No Major Changes.

## CINCINNATI SECTIONAL

### 83rd Edition, 17 Dec 2009

**OBSTRUCTIONS****17 Dec 2009** No Major Changes.**11 Feb 2010** Add obst 1129' MSL (300' AGL) UC, 38°29'49"N, 82°51'18"W.

Add obst 1276' MSL (300' AGL) UC, 38°24'01"N, 83°09'38"W.

Add obst 1097' MSL (275' AGL) UC, 39°03'46"N, 84°59'04"W.

Add obst 1522' MSL (258' AGL) UC, 39°39'44"N, 80°04'00"W.

Add obst 1580' MSL (289' AGL) UC, 39°43'33"N, 80°12'37"W.

Add obst 2642' MSL (304' AGL) UC, 38°24'24"N, 80°47'10"W.

Add windmill farm. 4411' MSL UC, 38°05'27"N, 80°25'48"W.

**8 Apr 2010** Add obst 1566' MSL (204' AGL) UC, 37°39'55"N, 83°57'21"W.

Add obst 1142' MSL (295' AGL) UC, 38°45'58"N, 84°53'45"W.

Add obst 1385' MSL (279' AGL) UC, 36°10'15"N, 84°02'17"W.

Add obst 1578' MSL (235' AGL) UC, 36°52'32"N, 84°12'59"W.

Add obst 1409' MSL (255' AGL) UC, 36°46'20"N, 84°45'59"W.

Add obst 1170' MSL (280' AGL) UC, 38°15'12"N, 84°37'40"W.

Add obst 1199' MSL (299' AGL) UC, 38°16'32"N, 84°57'02"W.

Add obst 1734' MSL (314' AGL) UC, 37°09'53"N, 83°23'10"W.

Add obst 1477' MSL (255' AGL) UC, 36°55'42"N, 84°14'33"W.

Add obst 786' MSL (310' AGL) UC, 36°14'41"N, 78°19'50"W.

Add obst 2210' MSL (260' AGL) UC, 36°23'13"N, 84°20'11"W.

Add obst 4716' MSL (389' AGL) UC, 38°04'46"N, 80°32'37"W.

Add obst 1695' MSL (315' AGL) UC, 37°10'09"N, 83°31'54"W.

Add obst 1792' MSL (306' AGL) UC, 37°36'25"N, 83°59'58"W.

Add obst 1138' MSL (300' AGL) UC, 38°20'21"N, 82°47'08"W.

Add obst 1280' MSL (258' AGL) UC, 38°51'21"N, 82°55'52"W.

Add obst 1008' MSL (216' AGL) UC, 39°20'01"N, 84°46'34"W.

Add obst 2610' MSL (415' AGL) UC, 38°49'04"N, 79°51'29"W.

Add obst 1612' MSL (311' AGL) UC, 38°09'58"N, 81°12'13"W.

Add obst 2509' MSL (315' AGL) UC, 39°02'16"N, 79°56'33"W.

Add obst 2434' MSL (315' AGL) UC, 39°00'23"N, 79°48'52"W.

Add obst 2422' MSL (289' AGL) UC, 39°18'45"N, 79°41'09"W.

Add obst 4726' MSL (389' AGL) UC, 38°03'56"N, 80°29'48"W.

Add obst 1917' MSL (290' AGL) UC, 39°24'46"N, 80°03'09"W.

Add obst 2314' MSL (260' AGL) UC, 37°46'35"N, 81°22'05"W.

Add obst 1872' MSL (408' AGL) UC, 37°41'43"N, 81°38'23"W.

Add obst 1433' MSL (340' AGL) UC, 38°18'44"N, 82°13'42"W.

Add obst 1798' MSL (360' AGL) UC, 39°29'40"N, 80°23'16"W.

Add obst 3352' MSL (315' AGL) UC, 38°21'38"N, 80°38'51"W.

Add obst 1772' MSL (315' AGL) UC, 39°35'16"N, 80°15'02"W.

Add obst 1318' MSL (300' AGL) UC, 38°13'32"N, 82°27'05"W.

Add obst 4248' MSL (320' AGL) UC, 37°46'25"N, 80°42'19"W.

Add obst 1498' MSL (289' AGL) UC, 39°42'45"N, 80°10'06"W.

Add obst 2189' MSL (289' AGL) UC, 39°19'20"N, 79°49'37"W.

Add obst 2905' MSL (360' AGL) UC, 38°09'10"N, 81°06'53"W.

Change windmill farm highest MSL from 4411' MSL to 4726' MSL (389' AGL) UC, 38°03'46"N, 80°30'08"W.

**AIRPORTS****17 Dec 2009** No Major Changes.**11 Feb 2010** Delete KNORE arpt, 38°50'15"N, 82°50'05"W.

Delete ACTION arpt, 39°07'57"N, 84°49'43"W.

**8 Apr 2010** No Major Changes.**NAVAIDS****17 Dec 2009 – 8 Apr 2010** No Major Changes.**AIRSPACE****17 Dec 2009** No Major Changes.**11 Feb 2010** Add MOUNTAIN CITY, TN Class E. That airspace extending upward from 700 feet above the surface within a 6.7-mile radius of the Johnson County Airport and within 1.3 miles each side of the 065° bearing from the airport extending from the 6.7-mile radius to 10.9 miles northeast of the airport.**8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Change MEF 4<sup>7</sup> to 4<sup>9</sup> in quadrant 38°00'–38°30'N, 80°30'–81°00'W.

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**CINCINNATI TERMINAL AREA CHART**  
**22nd Edition, 17 Dec 2009****OBSTRUCTIONS**

**11 Feb 2010** Add obst 1097' MSL (275' AGL) UC, 39°03'46"N, 84°59'04"W.  
**8 Apr 2010** Add obst 1142' MSL (295' AGL) UC, 38°45'58"N, 84°53'45"W.  
Add obst 1008' MSL (216' AGL) UC, 39°20'01"N, 84°46'34"W.

**AIRPORTS**

**11 Feb 2010** Delete ACTION arpt, 39°07'57"N, 84°49'43"W.  
**8 Apr 2010** No Major Changes.

**NAVAIDS**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

**AIRSPACE**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

**SPECIAL USE AIRSPACE**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

**MISCELLANEOUS**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

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**IFR GULF OF MEXICO CENTRAL**  
**1st Edition, 17 Dec 2009****OBSTRUCTIONS**

**17 Dec 2009 – 8 Apr 2010** No Major Changes.

**AIRPORTS**

**17 Dec 2009 – 8 Apr 2010** No Major Changes.

**NAVAIDS**

**17 Dec 2009 – 8 Apr 2010** No Major Changes.

**AIRSPACE**

**17 Dec 2009 – 8 Apr 2010** No Major Changes.

**SPECIAL USE AIRSPACE**

**17 Dec 2009 – 8 Apr 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**17 Dec 2009 – 8 Apr 2010** No Major Changes.

**MISCELLANEOUS**

**17 Dec 2009** No Major Changes.  
**11 Feb 2010** Delete BUEKR Waypoint N 29°45' W 91°50'.  
**8 Apr 2010** No Major Changes.

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**IFR GULF OF MEXICO WEST****1st Edition, 17 Dec 2009****OBSTRUCTIONS****17 Dec 2009 – 8 Apr 2010** No Major Changes.**AIRPORTS****17 Dec 2009 – 8 Apr 2010** No Major Changes.**NAVAIDS****17 Dec 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Delete BRENHAM (BNH) NDB 30°13'20.6"N, 96°22'24.6"W.**AIRSPACE****17 Dec 2009 – 8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Change Name SAITA to SARITA at HOUSTON RCAG 27°13'16"N, 97°47'56"W.

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**JACKSONVILLE SECTIONAL****85th Edition, 11 Feb 2010****OBSTRUCTIONS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**AIRPORTS****11 Feb 2010** No Major Changes.**8 Apr 2010** Add FLAGLER CO ATCT 118.95, 29°28'03"N, 81°12'23"W.**NAVAIDS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**AIRSPACE****11 Feb 2010 – 8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****11 Feb 2010 – 8 Apr 2010** No Major Changes.

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**MEMPHIS SECTIONAL**  
**84th Edition, 8 Apr 2010****OBSTRUCTIONS****8 Apr 2010** No Major Changes.**AIRPORTS****8 Apr 2010** No Major Changes.**NAVAIDS****8 Apr 2010** No Major Changes.**AIRSPACE****8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****8 Apr 2010** No Major Changes.**MISCELLANEOUS****8 Apr 2010** No Major Changes.

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**MEMPHIS TERMINAL AREA CHART**  
**42nd Edition, 8 Apr 2010****OBSTRUCTIONS****8 Apr 2010** No Major Changes.**AIRPORTS****8 Apr 2010** No Major Changes.**NAVAIDS****8 Apr 2010** No Major Changes.**AIRSPACE****8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****8 Apr 2010** No Major Changes.**MISCELLANEOUS****8 Apr 2010** No Major Changes.

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**MIAMI SECTIONAL**  
**86th Edition, 11 Feb 2010****OBSTRUCTIONS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**AIRPORTS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**NAVAIDS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**AIRSPACE****11 Feb 2010 – 8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****11 Feb 2010 – 8 Apr 2010** No Major Changes.

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**MIAMI TERMINAL AREA CHART**  
**75th Edition, 11 Feb 2010****OBSTRUCTIONS**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

**AIRPORTS**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

**NAVAIDS**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

**AIRSPACE**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

**SPECIAL USE AIRSPACE**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

**MISCELLANEOUS**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

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**NEW ORLEANS SECTIONAL**  
**85th Edition, 19 Nov 2009****OBSTRUCTIONS**

**17 Dec 2009** Add obst 250' MSL (231' AGL), 30°26'08"N, 90°38'21"W.

Add obst 852' MSL (499' AGL), 32°08'05"N, 90°03'41"W.

Change obst from 544' MSL (310' AGL) to 644' MSL (410' AGL), 31°52'32"N, 90°10'15"W.

Add obst 651' MSL (470' AGL), 31°44'31"N, 88°32'22"W.

**11 Feb 2010** Add obst 484' MSL (333' AGL), 30°52'58"N, 88°42'11"W.

Add obst 588' MSL (340' AGL), 30°50'44"N, 89°02'26"W.

Add obst 721' MSL (305' AGL), 32°08'47"N, 88°58'50"W.

Add obst 684' MSL (420' AGL), 32°05'12"N, 87°50'08"W.

Add obst 506' MSL (260' AGL), 32°03'44"N, 87°47'09"W.

Add obst 527' MSL (3110' AGL), 30°48'26"N, 88°31'00"W.

**8 Apr 2010** Add obst 529' MSL (311' AGL), 31°29'23"N, 89°01'10"W.

Add obst 565' MSL (310' AGL), 30°50'41"N, 89°15'15"W.

Add obst 618' MSL (360' AGL), 31°21'02"N, 88°57'25"W.

**AIRPORTS**

**17 Dec 2009** Delete WOLF RIVER ARPT, 30°54'52"N, 89°26'40"W.

**11 Feb 2010** No Major Changes.

**8 Apr 2010** Change HANCHEY AHP ATCT freq from 387.7 TO 387.85, 31°20'46"N, 85°39'15"W.

Delete SAWYER arpt, 31°28'29"N, 85°00'10"W.

**NAVAIDS**

**17 Dec 2009 – 8 Apr 2010** No Major Changes.

**AIRSPACE**

**17 Dec 2009** No Major Changes.

**11 Feb 2010** Add Jackson, AL Class E: That airspace extending upward from 700 feet above the surface within a 6.4-mile radius of Jackson Arpt.

**8 Apr 2010** No Major Changes.

**SPECIAL USE AIRSPACE**

**17 Dec 2009 – 8 Apr 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**17 Dec 2009 – 8 Apr 2010** No Major Changes.

**MISCELLANEOUS**

**17 Dec 2009 – 8 Apr 2010** No Major Changes.

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**ORLANDO TERMINAL AREA CHART**  
**40th Edition, 11 Feb 2010****OBSTRUCTIONS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**AIRPORTS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**NAVAIDS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**AIRSPACE****11 Feb 2010 – 8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****11 Feb 2010 – 8 Apr 2010** No Major Changes.

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**PUERTO RICO–VIRGIN ISLAND TERMINAL AREA CHART**  
**36th Edition, 22 Oct 2009****OBSTRUCTIONS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**11 Feb 2010** Add obst 818' MSL (260' AGL) UC, 18°02'29"N, 66°50'24"W.**8 Apr 2010** No Major Changes.**AIRPORTS****22 Oct 2009 – 8 Apr 2010** No Major Changes.**NAVAIDS****22 Oct 2009 – 8 Apr 2010** No Major Changes.**AIRSPACE****22 Oct 2009 – 8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 8 Apr 2010** No Major Changes.

## ST. LOUIS SECTIONAL

### 81st Edition, 17 Dec 2009

**OBSTRUCTIONS****17 Dec 2009** No Major Changes.**11 Feb 2010** Add obst 1097' MSL (275' AGL) UC, 39°03'46"N, 84°59'04"W.

Add obst 1410' MSL (630' AGL) UC, 40°03'14"N, 85°59'22"W.

Change obst from 827' MSL (243' AGL) to 882' MSL (300' AGL), 38°44'06"N, 89°57'02"W.

Add obst 738' MSL (226' AGL) UC, 38°11'11"N, 89°40'09"W.

Add obst 722' MSL (260' AGL) UC, 38°17'56"N, 89°59'34"W.

Add obst 692' MSL (260' AGL) UC, 37°15'35"N, 88°58'50"W.

Add obst 851' MSL (349' AGL) UC, 38°45'25"N, 89°06'09"W.

Add obst 756' MSL (275' AGL) UC, 38°32'04"N, 89°31'26"W.

Add obst 865' MSL (220' AGL), 39°17'43"N, 88°00'03"W.

Add obst 1200' MSL (237' AGL) UC, 39°12'34"N, 86°38'31"W.

Add obst 917' MSL (227' AGL) UC, 37°53'08"N, 86°03'40"W.

Add obst 1003' MSL (258' AGL) UC, 40°12'40"N, 88°44'43"W.

Add obst 851' MSL (258' AGL) UC, 39°55'55"N, 89°40'00"W.

Add obst 888' MSL (258' AGL) UC, 39°40'32"N, 89°50'15"W.

Add obst 1265' MSL (315' AGL) UC, 37°45'31"N, 90°46'15"W.

Add obst 868' MSL (258' AGL) UC, 39°58'06"N, 89°43'48"W.

Add obst 879' MSL (258' AGL) UC, 39°56'42"N, 89°55'56"W.

Add obst 838' MSL (258' AGL) UC, 39°50'25"N, 89°48'10"W.

Add obst 885' MSL (258' AGL) UC, 39°02'32"N, 89°53'08"W.

Add obst 887' MSL (258' AGL) UC, 39°04'50"N, 89°48'26"W.

**8 Apr 2010** Add obst 1164' MSL (400' AGL) UC, 40°10'06"N, 89°05'56"W.

Add obst 1566' MSL (204' AGL) UC, 37°39'55"N, 83°57'21"W.

Add obst 817' MSL (300' AGL) UC, 38°37'03"N, 86°42'35"W.

Add obst 1142' MSL (295' AGL) UC, 38°45'58"N, 84°53'45"W.

Add obst 1022' MSL (256' AGL) UC, 37°30'50"N, 86°25'55"W.

Add obst 703' MSL (258' AGL) UC, 38°15'24"N, 89°03'24"W.

Add obst 900' MSL (250' AGL) UC, 40°06'39"N, 90°33'35"W.

Add obst 1385' MSL (279' AGL) UC, 36°10'15"N, 84°02'17"W.

Add obst 712' MSL (280' AGL) UC, 36°40'56"N, 88°44'19"W.

Add obst 1578' MSL (235' AGL) UC, 36°52'32"N, 84°12'59"W.

Add obst 1409' MSL (255' AGL) UC, 36°46'20"N, 84°45'59"W.

Add obst 863' MSL (280' AGL) UC, 37°48'34"N, 85°34'52"W.

Add obst 1133' MSL (299' AGL) UC, 38°20'55"N, 85°02'02"W.

Add obst 1170' MSL (280' AGL) UC, 38°15'12"N, 84°37'40"W.

Add obst 1199' MSL (299' AGL) UC, 38°16'32"N, 84°57'02"W.

Add obst 1119' MSL (265' AGL) UC, 38°26'43"N, 85°10'39"W.

Add obst 829' MSL (255' AGL) UC, 37°16'08"N, 86°40'28"W.

Add obst 902' MSL (255' AGL) UC, 36°45'38"N, 86°43'03"W.

Add obst 682' MSL (300' AGL) UC, 36°55'13"N, 87°58'37"W.

Add obst 1032' MSL (255' AGL) UC, 36°50'24"N, 85°56'34"W.

Add obst 905' MSL (310' AGL) UC, 37°51'44"N, 86°45'00"W.

Add obst 1477' MSL (255' AGL) UC, 36°55'42"N, 84°14'33"W.

Add obst 1052' MSL (255' AGL) UC, 37°05'29"N, 85°36'52"W.

Add obst 977' MSL (260' AGL) UC, 39°09'51"N, 90°48'57"W.

Add obst 834' MSL (234' AGL) UC, 38°17'02"N, 90°35'42"W.

Add obst 955' MSL (232' AGL) UC, 38°19'22"N, 90°50'28"W.

Add obst 787' MSL (400' AGL) UC, 36°15'29"N, 88°11'11"W.

Add obst 1178' MSL (286' AGL) UC, 36°30'51"N, 86°33'57"W.

Add obst 988' MSL (290' AGL) UC, 36°27'48"N, 87°37'08"W.

Add obst 2210' MSL (260' AGL) UC, 36°23'13"N, 84°20'11"W.

Add obst 1792' MSL (306' AGL) UC, 37°36'25"N, 83°59'58"W.

Add obst 1020' MSL (349' AGL) UC, 37°06'51"N, 87°56'32"W.

Add obst 887' MSL (259' AGL) UC, 39°35'02"N, 89°44'44"W.

Add obst 1008' MSL (216' AGL) UC, 39°20'01"N, 84°46'34"W.

Add obst 959' MSL (260' AGL) UC, 38°24'38"N, 90°45'42"W.

Add obst 962' MSL (215' AGL) UC, 37°41'57"N, 84°29'03"W.

**AIRPORTS****17 Dec 2009** No Major Changes.**11 Feb 2010** Delete ACTION arpt, 39°07'57"N, 84°49'43"W.

Delete RP 19, RP 14 at SMYRNA arpt, 36°00'32"N, 86°31'12"W.

**8 Apr 2010** Delete RICHARDSON arpt, 38°22'50"N, 87°13'14"W.**NAVAIDS****17 Dec 2009** No Major Changes.**11 Feb 2010** Delete CLAYE NDB, 39°03'23"N, 86°35'58"W.

Shutdown KENNETT NDB, 36°13'43"N, 90°02'21"W.

Shutdown LITCHFIELD NDB, 39°09'55"N, 89°40'32"W.

**8 Apr 2010** No Major Changes.

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**AIRSPACE****17 Dec 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Revise ST. LOUIS, MO. Class D: That airspace extending upward from the surface to and including 3,000 feet MSL within a 4.3-mile radius of Spirit of St. Louis Airport, and within 1 mile each side of the 258° bearing from the airport extending from the 4.3-mile radius to 4.6 miles west of the airport, excluding that airspace within the St. Louis, MO Class B airspace area. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory.**SPECIAL USE AIRSPACE****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009 – 8 Apr 2010** No Major Changes.

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**TAMPA TERMINAL AREA CHART****40th Edition, 11 Feb 2010****OBSTRUCTIONS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**AIRPORTS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**NAVAIDS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**AIRSPACE****11 Feb 2010 – 8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****11 Feb 2010 – 8 Apr 2010** No Major Changes.

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**U.S. GULF COAST VFR CHART**  
**24th Edition, 22 Oct 2009****OBSTRUCTIONS****22 Oct 2009 – 8 Apr 2010** No Major Changes.**AIRPORTS****22 Oct 2009 – 8 Apr 2010** No Major Changes.**NAVAIDS****22 Oct 2009 – 8 Apr 2010** No Major Changes.**AIRSPACE****22 Oct 2009 – 17 Dec 2009** No Major Changes.**11 Feb 2010** Add LCHCB IFR Waypoint, 29°31'39"N, 93°00'00"W.

Add LCHLB IFR Waypoint, 29°32'11"N, 93°20'00"W.

Add LCHRB IFR Waypoint, 29°31'04"N, 92°40'00"W.

Add LLACB IFR Waypoint, 29°30'31"N, 92°00'00"W.

Add LLALB IFR Waypoint, 29°30'49"N, 92°20'00"W.

Add LLARB IFR Waypoint, 29°30'10"N, 91°43'49"W.

**8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 8 Apr 2010** No Major Changes.

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**WASHINGTON SECTIONAL**  
**87th Edition, 11 Feb 2010****OBSTRUCTIONS****11 Feb 2010** No Major Changes.**8 Apr 2010** Add obst 371' MSL (310' AGL), 36°15'27"N, 77°30'00"W.**AIRPORTS****11 Feb 2010** No Major Changes.**8 Apr 2010** HALIFAX COUNTY arpt closed, 36°26'22"N, 77°42'33"W.

Add CTAF 126.2 at A P HILL (FORT A P HILL) arpt, 38°04'07"N, 77°19'06"W.

Change WASHINGTON DULLES INTL ATCT freq from 128.425 to 134.425, 38°56'40"N, 77°27'21"W.

**NAVAIDS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**AIRSPACE****11 Feb 2010 – 8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****11 Feb 2010 – 8 Apr 2010** No Major Changes.

## SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private-use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

## UNITED STATES

FACILITY NAME	CHART & PANEL
<b>Frankfort, IL (LL40)</b>	L-28H
Chicago App/Dep Con 133.1 285.6	
<b>Glasgow Industrial, MT (Ø7MT)</b>	H-1E, 2F, L-13D
Salt Lake Center App/Dep Con 126.85 305.2	
<b>USAF Academy Bullseye Aux Airstrip, CO (C09Ø)</b>	L-10F
ASOS 118.325	
<b>West Kentucky Airpark, KY (5KY3)</b>	L-16I
Memphis Center App/Dep Con 133.65 292.15	
<b>William P Gwinn, FL (Ø6FA)</b>	H-8I, L-23C
Gwinn Tower 120.4 279.25 (Mon-Fri 1300-2100Z†)	
Gnd Con 121.65 279.25	

## CANADA

FACILITY NAME	CHART & PANEL
<b>Abbotsford, BC (CYXX)</b>	H-1B, L-12F
ATIS 119.8 (1500-0700Z†)	
Victoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8	
Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-0700Z†) Gnd Con 121.8	
MF 119.4 295.0 (0700-1500Z†) (Shape irregular to 4500')	
<b>Amos/Magny, QC (CYEY)</b>	H-11B
Montreal Center App/Dep Con 125.9	
<b>Atikokan Muni, ON (CYIB)</b>	L-14I
MF 122.3 (5 NM to 4500' No ground station)	
<b>Barrie-Orillia (Lake Simcoe Rgnl), ON (CYLS)</b>	H-11B, L-31D
AWOS 122.55 (Pvt)	
Toronto Center App/Dep Con 124.025	
<b>Bar River, ON (CPF2)</b>	L-31C
Toronto Center App/Dep Con 132.65	
<b>Bathurst, NB (CZBF)</b>	L-32J
Moncton Center App/Dep Con 134.25	
<b>Boundary Bay, BC (CZBB)</b>	H-1B, L-1E
ATIS 125.5 (1500-0700Z†)	
Vancouver App/Dep Con 132.3 363.8	
Tower 118.1 (Inner) 127.6 (Outer) (1500-0700Z†) Gnd Con 124.3	
MF 118.1 (0700-1500Z† to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.)	
<b>Brampton, ON (CNC3)</b>	L-31D
Toronto Trml App/Dep Con 119.3 253.1	
<b>Brandon Muni, MB (CYBR)</b>	H-2H
Winnipeg Center App/Dep Con 132.25 285.4	
MF 122.1 (5 NM to 4000')	
<b>Brantford, ON (CYFD)</b>	L-31D
Toronto Trml App/Dep Con 128.27	
<b>Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3)</b>	L-32G
Montreal Center App/Dep Con 134.675	
<b>Bromont, QC (CZBM)</b>	L-32G
Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400')	
<b>Burlington Airpark, ON (CZBA)</b>	L-31D
Toronto Center App/Dep Con 119.3 253.1	
<b>Castlegar/West Kootenay Rgnl, BC (CYCG)</b>	H-1C
Vancouver Center App/Dep Con 134.2 227.3	
MF 122.1 (5 NM to 6500')	
<b>Centralia/James T. Fld Muni, ON (CYCE)</b>	H-10G, 11B, L-31D
Toronto Center App/Dep Con 135.30	
<b>Charlottetown, PE (CYYG)</b>	H-11E, L-32J
Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200')	
<b>Chatham-Kent, ON (CNZ3)</b>	H-10G, L-30G
Cleveland Center App/Dep Con 132.25	

FACILITY NAME	CHART & PANEL
<b>Collingwood, ON (CNY3)</b> Toronto Center App/Dep Con 124.02	H-11B, L-31D
<b>Cornwall Rgnl, ON (CYCC)</b> Boston Center App/Dep Con 135.25 377.1	L-32G
<b>Cranbrook/Canadian Rockies Intl, BC (CYXC)</b> Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	H-1C
<b>Debert, NS (CCQ3)</b> Halifax Trml App/Dep Con 119.2	H-11E, L-32J
<b>Digby, NS (CYID)</b> Moncton Center App/Dep Con 123.9	L-32J
<b>Downsview, ON (CYZD)</b> Toronto Center App Con 133.4 Toronto Center Dep Con 133.4 MF 126.2 (1300-2300Z±, 3 NM to 1700')	H-11B, L-31E
<b>Drummondville, QC (CSC3)</b> Montreal Center App/Dep Con 132.35	L-32H
<b>Earlton (Timiskaming Rgnl), ON (CYXR)</b> MF 122.0 (5 NM to 3800') AWOS 128.6	H-11B
<b>Elliot Lake Muni, ON (CYEL)</b> Toronto Center App/Dep Con 135.4	L-31C
<b>Fort Frances Muni, ON (CYAG)</b> Minneapolis Center App/Dep Con 120.9	L-14H
<b>Fredericton Intl, NB (CYFC)</b> ATIS 127.55 Moncton Center App/Dep Con 124.3 135.5 270.8 Tower 119.0 (1200-2000Z±) Gnd Con 121.7 (Ltd hrs) MF 119.0 (2000-1200Z±, 5 NM to 3500')	H-11E, L-32I
<b>Goderich, ON (CYGD)</b> Toronto Center App/Dep 135.3 266.3	H-11B, L-31D
<b>Greenwood, NS (CYZX)</b> ATIS 128.85 244.3 (1100-0000Z±) App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3 Gnd Con 133.75 289.4 Clncl Del 128.05 283.9	H-11E, L-32J
<b>Grimsby Air Park, ON (CNZ8)</b> Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	L-31E
<b>Halifax/Shearwater, NS (CYAW)</b> ATIS 129.175 (Ltd hrs) App/Dep Con 119.2 Tower 119.0 126.2 340.2 360.2 (Ltd hrs) Gnd Con 121.7 250.1	H-11E, L-32J
<b>Halifax/Stanfield Intl, NS (CYHZ)</b> ATIS 121.0 Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 225.2 363.8 Tower 118.4 236.6 Gnd Con 121.9 275.8 Clncl Del 123.95 Apron Advisory 122.125	H-11E, L-32J
<b>Hamilton, ON (CYHM)</b> ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6	H-10H, 11B, L-11B
<b>Kingston, ON (CYGK)</b> Montreal Center App/Dep Con 135.05 398.4 (0400-1115Z±) MF 122.5 (1115-0400Z± 5 NM to 3300')	H-11C, L-31E, 32F
<b>Kitchener/Waterloo, ON (CYKF)</b> ATIS 125.1 (1200-0400Z±) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200-0400Z±) Gnd Con 121.8 MF 126.0 (0400-1200Z± 5 NM to 4000')	H-11B, L-31D
<b>Lachute, QC (CSE4)</b> Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3	L-32G
<b>La Tuque, QC (CYLQ)</b> Montreal Center App/Dep Con 134.5	H-11C
<b>Langley, BC (CYNJ)</b> ATIS 124.5 (1630-0230Z, DT 1530-0330Z) Victoria Trml 132.7 290.8 Tower 119.0 (1630-0230Z, DT 1530-0330Z) Gnd Con 121.9 MF 119.0 (0230-1630Z, DT 0330-1530Z 3 NM to 1900')	L-1E



FACILITY NAME	CHART & PANEL
<b>Leamington, ON (CLM2)</b> Cleveland Center App/Dep Con 132.45	L-30F
<b>Lethbridge, AB (CYQL)</b> ATIS 124.4 (1300-0545Z‡) Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000')	H-1D
<b>Lindsay, ON (CNF4)</b> Toronto Center App/Dep 134.25	L-31E, L-32F
<b>Liverpool/South Shore Rgnl, NS (CYAU)</b> Moncton Center App/Dep Con 123.9	L-32J
<b>London, ON (CYXU)</b> ATIS 127.8 (1120-0345Z‡) Toronto Center App/Dep 135.3 135.625 Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9 MF 119.4 (0345-1120Z‡ 5 NM to 3000')	H-10G, 11B, L-30G, 31D
<b>Manitowaning/Manitoulin East Muni, ON (CYEM)</b> Toronto Center App/Dep 135.4 260.9	L-31C
<b>Maniwaki, QC (CYMW)</b> Montreal Center App/Dep Con 126.57	L-32G
<b>Mascouche, QC (CSK3)</b> MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the N shore of Riviere des Milles-Iles and 1 NM around Lac Agile Mascouche arpt.)	L-32G
<b>Medicine Hat, AB (CYXH)</b> AWOS 124.875 (0345-1245Z‡) MF 122.2 (1245-0345Z‡ 5 NM to 5400')	H-1D
<b>Midland/Huron, ON (CYEE)</b> Toronto Center App/Dep 124.025	L-31D
<b>Miramichi, NB (CYCH)</b> Moncton Center App/Dep Con 123.7	H-11E, L-32J
<b>Moncton/Greater Moncton Intl, NB (CYQM)</b> ATIS 128.65 App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8 Apron Advisory 122.075	H-11E, L-32J
<b>Mont-Laurier, QC (CSD4)</b> Montreal Center App/Dep Con 126.57	L-32G
<b>Montreal Intl (Mirabel), QC (CYMX)</b> ATIS 125.7 Montreal Center App Con 124.65 132.85 268.3 Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15	H-11C, 12K, L-32G
<b>Montreal/Pierre Elliott Trudeau Intl, QC (CYUL)</b> ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15	H-11C, 12K, L-32G
<b>Montreal/St-Hubert, QC (CYHU)</b> ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15	H-11C, L-32G
<b>Muskoka, ON (CYQA)</b> AWOS 124.575 MF 122.3 (5 NM to 3900')	H-11B, L-31D
<b>Nanaimo, BC (CYCD)</b> Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500')	H-1B, L-1E
<b>North Bay, ON (CYYB)</b> ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	H-11B, L31D
<b>Oshawa, ON (CYOO)</b> ATIS 125.675 (1130-0330Z‡) Toronto Trml App Con 133.4 Tower 120.1 (1130-0330Z‡) Gnd Con 118.4 Toronto Trml Dep Con 133.4 MF 120.1 (0330-1130Z‡ 5 NM to 3000')	L-31E

FACILITY NAME	CHART & PANEL
<b>Ottawa/Carp, ON (CYRP)</b> ATIS 121.15 Ottawa Trml App/Dep Con 128.175 252.5	L-31E, 32F
<b>Ottawa/Gatineau, QC (CYND)</b> Ottawa Trml App/Dep Con 127.7 128.175 252.5 MF 122.3 (5 NM shape irregular to 2500') VFR Advisory Ottawa Trml 127.7	H-11C, L-32G
<b>Ottawa/MacDonald-Cartier Intl, ON (CYOW)</b> ATIS 121.15 Ottawa App Con 135.15 Tower 118.8 120.1 341.3 Gnd Con 121.9 Clnc Del 119.4 Ottawa Dep Con 128.175	L-11C
<b>Owen Sound/Billy Bishop Rgnl, ON (CYOS)</b> Toronto Center App/Dep 132.575 290.6	L-31D
<b>Pelee Island, ON (CYPT)</b> Cleveland Center App/Dep Con 126.35 360.0	L-30F
<b>Pembroke, ON (CYTA)</b> Montreal Center App/Dep Con 135.2 Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z†, OT PPR)	H-11C, L-31E, 32F
<b>Penticton, BC (CYYF)</b> Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100')	H-1B
<b>Peterborough, ON (CYPQ)</b> AWOS 126.925 Toronto Center App/Dep 134.25	H-11B, L-31E, 32F
<b>Pincher Creek, AB (CZPC)</b> Edmonton Center App/Dep Con 132.75 265.2	H-1D
<b>Pitt Meadows, BC (CYPK)</b> ATIS 125.0 (1500-0700Z†) Vancouver Center App Con 128.6 352.7 (Outer) Pitt Tower 126.3 (1500-0700Z†) Gnd Con 123.8 Vancouver Center Dep Con 132.3 363.8 (South) MF 126.3 (0700-1500Z†) (3NM to 2500')	L-1E
<b>Quebec/Jean Lesage Intl, QC (CYQB)</b> ATIS 134.6 Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8 Tower 118.65 236.6 Gnd Con 121.9 250.0	H-11D, L-32H
<b>Riviere Du Loup, QC (CYRI)</b> AWOS 122.025 (Pvt) Montreal Center App/Dep Con 125.1 299.6	H-11D
<b>Rouyn Noranda, QC (CYUY)</b> Montreal Center App/Dep Con 125.9 MF 122.2 (5 NM to 4000')	H-11B
<b>Saint John, NB (CYSJ)</b> Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	H-11E, L-32J
<b>Sarnia (Chris Hadfield), ON (CYZR)</b> Toronto Center 134.375	H-10G, 11B, L-30F
<b>Sault Ste Marie, ON (CYAM)</b> ATIS 133.05 (1300-0100Z†) Toronto Center App/Dep Con 132.65 344.5 Tower 118.8 (1300-0100Z†) Gnd Con 121.7 MF 118.8 (0100-1300Z† 5 NM irregular shape to 3000')	H-2K, L-31B
<b>Sherbrooke, QC (CYAM)</b> AWOS 126.25 Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800')	H-11D, L-32H
<b>South Renfrew Muni, ON (CNP3)</b> Montreal Center App/Dep 124.275	L-31E, 32F
<b>Southport, MB (CYPG)</b> ATIS 120.85 (Mon-Fri 1400-2300Z† except holidays) Tower 126.2 384.2 (Mon-Fri 1400-2300Z† except holidays) Gnd Con 121.7 275.8	H-2H

FACILITY NAME	CHART & PANEL
<b>Springwater Barrie Airport, ON (CNA3)</b> Toronto Center App/Dep Con 124.025	L-31D
<b>St. Catharines/Niagara District, ON (CYSN)</b> ATIS 128.525 (1215-0200Z‡) Toronto Trml App/Dep Con 133.4 253.1 MF 123.25 (1215-0200Z‡ 5 NM to 3300')	H-10H, 11B, L-31E
<b>St. Frederic, QC (CSZ4)</b> Montreal Center App/Dep Con 135.025 270.9	L-32H
<b>St. Georges, QC (CYSG)</b> Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM 3900' ASL)	H-32H, L-11D
<b>St. Jean, QC (CYJN)</b> Montreal Center App/Dep Con 125.15 268.3 Tower 118.2 (Apr-Oct 1230-0230Z‡ Nov-Mar 1300-0200Z‡) Gnd Con 121.7	L-32G
<b>Sudbury, ON (CYSB)</b> ATIS 127.4 Toronto Center App/Dep Con 135.5 MF 125.5 (7 NM to 4000')	H-31B, 10G, L-31D
<b>Summerside, PE (CYSU)</b> AWOS 122.55 (Pvt) Moncton Center App/Dep Con 124.4 384.8	H-11E, L-32J
<b>Thunder Bay, ON (CYQT)</b> ATIS 128.8 (1100-0400Z‡) Winnipeg Center App/Dep Con 132.125 (0400-1100Z‡) Tower 118.1 (1100-0400Z‡) Gnd Con 121.9 App/Dep 119.2 MF 118.1 (0400-1100Z‡ 5 NM to 4000')	H-2J, L-14J
<b>Timmins/Victor M. Power, ON (CYTS)</b> ATIS 124.95 (1000-0500Z‡) Toronto Center App/Dep Con 128.3 MF 122.3 (5 NM to 4000')	H-11B
<b>Toronto/Buttonville Muni, ON (CYKZ)</b> ATIS 127.1 (1200-0400Z‡) Toronto Center App Con 133.4 Toronto Center Dep Con 133.4 Tower 124.8 119.9 (1200-0400Z‡) Gnd Con 121.8 MF 124.8 (0400-1200Z‡ No gnd station. 5 NM shape irregular to below 2500')	L-31E
<b>Toronto/Billy Bishop Toronto City Airport, ON (CYTZ)</b> ATIS 133.6 (1130-0400Z‡) App Con 133.4 Dep Con 133.4 Tower 118.2 119.2 (1130-0400Z‡) Gnd Con 121.7	L-31E
<b>Toronto/Lester B Pearson Intl, ON (CYYZ)</b> ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clnc Del 121.3 (1200-0400Z‡)	H-11B, L-31D
<b>Trenton, ON (CYTR)</b> ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4	H-11C, L-31E, 32F
<b>Trenton/Mountain View, ON (CPZ3)</b> Trenton Mil Advisory 268.0	H-11C, L-31E, 32F
<b>Trois-Rivieres, QC (CYRQ)</b> Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200')	H-11C, L-32H
<b>Val-d'Or, QC (CYVO)</b> Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-0325Z‡ 5 NM to 4000')	H-11B
<b>Vancouver Intl, BC (CYVR)</b> ATIS 124.6 124.75 App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner) Dep Con 126.125 (north) 132.3 (south) 363.8 Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6 Gnd Con 121.7 (south) 127.15 (north) 275.8 Clnc Del 121.4	H-1B, L-1E

FACILITY NAME	CHART & PANEL
<b>Victoria Intl, BC (CYYJ)</b> ATIS 118.8 (1400-0800Z) App Con 125.95 308.4 Dep Con 133.85 308.4 Tower 119.1 (Outer) 119.7 (Inner) 239.6 Gnd Con 121.9 361.4 (1400-0800Z) OT ctc Kamloops 119.7 Clncl Del 126.4 (1400-0800Z)	H-1B, L-1E
<b>Victoriaville, QC (CSR3)</b> Montreal Center App Con 132.35	L-32H
<b>Waterville/Kings Co Muni, NS (CCW3)</b> Greenwood Trml App/Dep Con 120.6 335.9 Greenwood Tower 119.5 324.3	L-32J
<b>Warton, ON (CYVW)</b> Toronto Center App/Dep Con 132.575 MF 122.2 (5 NM to 3700')	H-11B, L-31D
<b>Windsor, ON (CYQG)</b> ATIS 134.5 (1130-0330Z) Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2 Tower 124.7 (1130-0330Z) Gnd Con 121.7 MF 124.7 (0330-1130Z) 6 NM irregular shape to below 3000' VFR Advisory Detroit App Con 134.3	H-10G, L-8J
<b>Yarmouth, NS (CYQI)</b> Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	H-11E, L-32I

## MEXICO

FACILITY NAME	CHART & PANEL
<b>Abraham Gonzalez Intl (MMCS)</b> Juarez App Con 119.9 Juarez Tower 118.9	H-4K, L-6F
<b>Del Norte Intl (MMAN)</b> ATIS 127.55 (1300-0300Z) Monterrey App 119.75 120.4 Tower 118.6	H-7B, L-20G
<b>Durango Intl (MMDO)</b> ATIS 132.1 Tower 118.1 Durango Info 122.3	H-7A
<b>General Abelardo L. Rodriguez Intl (MMTJ)</b> ATIS 127.9 Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Clncl Del 122.35 Tijuana Info 132.1	H-4H, L-4H
<b>General Lucio Blanco Intl (MMRX)</b> Reynosa App Con 118.8 Reynosa Tower 118.8	H-7B, L-20H
<b>General Mariano Escobedo Intl (MMMY)</b> ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9	H-7B, L-20G
<b>General R Fierro Villalobos Intl (MMCU)</b> ATIS 127.9 Chihuahua App Con 121.0 Chihuahua Tower 118.4	L-6I
<b>General Rodolfo Sanchez Taboada Intl (MMML)</b> ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	H-4H, L-4J, 5A
<b>General Servando Canales (MMMA)</b> Matamoros App Con 118.0 Matamoros Tower 118.0	H-7C, L-21A
<b>Plan De Guadalupe Intl (MMIO)</b> Saltillo App Con 127.4 Saltillo Tower 118.4	H-7B
<b>Quetzalcoatl Intl (MMNL)</b> Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3	H-7B, L-20G
<b>Torreon Intl (MMTC)</b> App Con 119.6 Tower 118.5	H-7A

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




In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

## GENERAL INFORMATION





### PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., , , .
2. Approach lighting systems that do not bear a system identification are indicated with a negative "0" beside the name. A star (★) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., ★. To activate lights use frequency indicated in the communication section of the chart with a  or the appropriate lighting system identification e.g., UNICOM 122.8 , , .

<u>KEY MIKE</u>	<u>FUNCTION</u>
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-off)

### CHART CURRENCY INFORMATION

FAA procedure amendment number  Amdt 11A 99365  Date of latest change  
 Orig 00365 

The Chart Date identifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

### MISCELLANEOUS

- ★ Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- # Indicates control tower temporarily closed UFN.









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## LEGEND

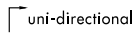
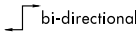

### INSTRUMENT APPROACH PROCEDURES (CHARTS)

#### AIRPORT DIAGRAM/AIRPORT SKETCH

##### Runways

			
Hard Surface	Other Than Hard Surface	Stopways, Taxiways, Parking Areas, Water Runways	Displaced Threshold
			
Closed Runway	Closed Taxiway	Under Construction	Metal Surface








**ARRESTING GEAR:** Specific arresting gear systems; e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications.

 uni-directional  bi-directional  Jet Barrier

##### ARRESTING SYSTEM



##### REFERENCE FEATURES

Buildings.....	
Tanks.....	
Obstructions.....	
Airport Beacon #.....	
Runway	
Radar Reflectors.....	
Control Tower #.....	
Hot Spot .....	





# When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.





Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways.

A **D** symbol is shown to indicate runway declared distance information available, see appropriate A/FD, Alaska or Pacific Supplement for distance information.

Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression.

Refer to the appropriate Supplement/Directory for applicable codes e.g., Rwy 14-32 S75, T185, ST175, TT325 PCN 80 F/D/X/U

Helicopter Alighting Areas    


Negative Symbols used to identify Copter Procedures landing point.....    

Runway Threshold elevation.....THRE 123  
Runway TDZ elevation.....TDZE 123

Runway Slope.....0.3% DOWN  
(shown when runway slope is greater than or equal to 0.3%)

##### NOTE:

Runway Slope measured to midpoint on runways 8000 feet or longer.

 U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft.

Approach light symbols are shown in the Flight Information Handbook.

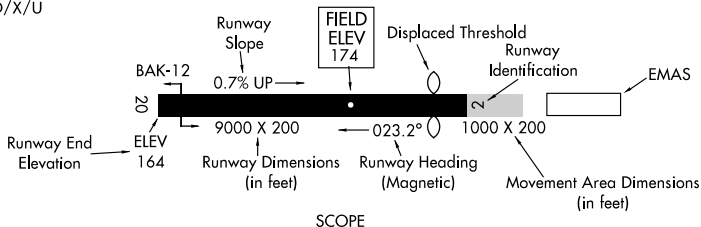
Airport diagram scales are variable.

True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or 1/2 minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

##### NOTE:

All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in FLIP. (Foreign Only)



Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

## LEGEND

## HOT SPOTS

An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as circles or polygons designated as "HOT<sup>1</sup>", "HOT<sup>2</sup>", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION
<b>ALABAMA</b>		
MONTGOMERY MONTGOMERY RGNL (DANNELY FIELD) (MGM)	HOT <sup>1</sup>	Intersection of Twy A3 and the terminal ramp. Potential confusion of Twy A3 as the taxi route to Rwy 10-28.
	HOT <sup>2</sup>	Intersection of the Twy A5 and the ANG ramp. Potential exiting Rwy 10-28 at Twy A5.
<b>FLORIDA</b>		
DAYTONA BEACH DAYTONA BEACH INTL (DAB)	HOT <sup>1</sup>	Pilots taxiing southbound on Twy W sometimes miss the right turn on Twy S and enter the runway without clearance.
MIAMI MIAMI INTL, FL (MIA)	HOT <sup>1</sup>	Multiple intersections closely spaced.
	HOT <sup>2</sup>	Departure taxi out of Spot 15, Spot 14, Spot 13, misidentification of Twy P and Twy Q at Twy T has lead to rwy incursions onto Rwy 12-30.
	HOT <sup>3</sup>	Twy runway ends in close proximity.
STUART WITHAM FIELD (SUA)	HOT <sup>1</sup>	Intersecting rwys, wrong rwy departure risk. (Check rwy alignment.)
	HOT <sup>2</sup>	Rwy 12 and Twy A1.
<b>GEORGIA</b>		
ATLANTA HARTSFIELD-JACKSON ATLANTA INTL (ATL)	HOT <sup>1</sup>	Intersections of Twy C and Twy D at Rwy 08L-26R. Hold short line is only 250 feet after exiting the FBO ramp. Rwy hold bar is canted which peaks towards the twy.
	HOT <sup>2</sup>	Intersections of Twy C and Twy D at Rwy 08R-26L. Caution transitioning between the parallel rwys. Rwy hold bar is canted which peaks towards the twy. Rwy hold short line is only 380' away after exiting Rwy 08L-26R and 70' south of the Twy B centerline.
	HOT <sup>3</sup>	Intersection of Twy H at Rwy 08R-26L. Aircraft travelling westbound for the Twy V end-around, mistakenly turn southbound on Twy H and enter Rwy 08R-26L.
	HOT <sup>4</sup>	Intersection of Twy D at Rwy 09L-27R. Aircraft southbound on Twy D fail to turn on Twy L and Twy M and enter Rwy 09L-27R. Aircraft crossing Rwy 09L-27R at Twy D southbound to Twy K must turn 45 degrees left immediately after crossing the rwy hold bar.
AUGUSTA AUGUSTA RGNL AT BUSH FLD (AGS)	HOT <sup>1</sup>	Intersection of Twy E and Rwy 17-35.
<b>NORTH CAROLINA</b>		
CHARLOTTE CHARLOTTE/DOUGLAS INTL (CLT)	HOT <sup>1</sup>	Confusing intersection due to convergence of Twy R, Twy A, Twy C and Twy C9, along with grass island.
RALEIGH/DURHAM RALEIGH-DURHAM INTL (RDU)	HOT <sup>1</sup>	Intersection of Rwy 5R-23L and Twy C.



## TENNESEE

KNOXVILLE

MC GHEE TYSON (TYS)

HOT <sup>1</sup>	Holding position marking for full length of Rwy 23L just beyond Twy A8 and Twy A.
HOT <sup>2</sup>	Ramp exit Twy R5 short distance from Twy A and Rwy 05R-23L. Pilots miss turn onto Twy A.
HOT <sup>3</sup>	Ramp exit Twy R4 short distance from Twy A and Rwy 05R-23L. Pilots miss turn onto Twy A.
HOT <sup>4</sup>	Acft taxiing on Twy B4 southeast bound sometime fall to hold short of Rwy 23L.

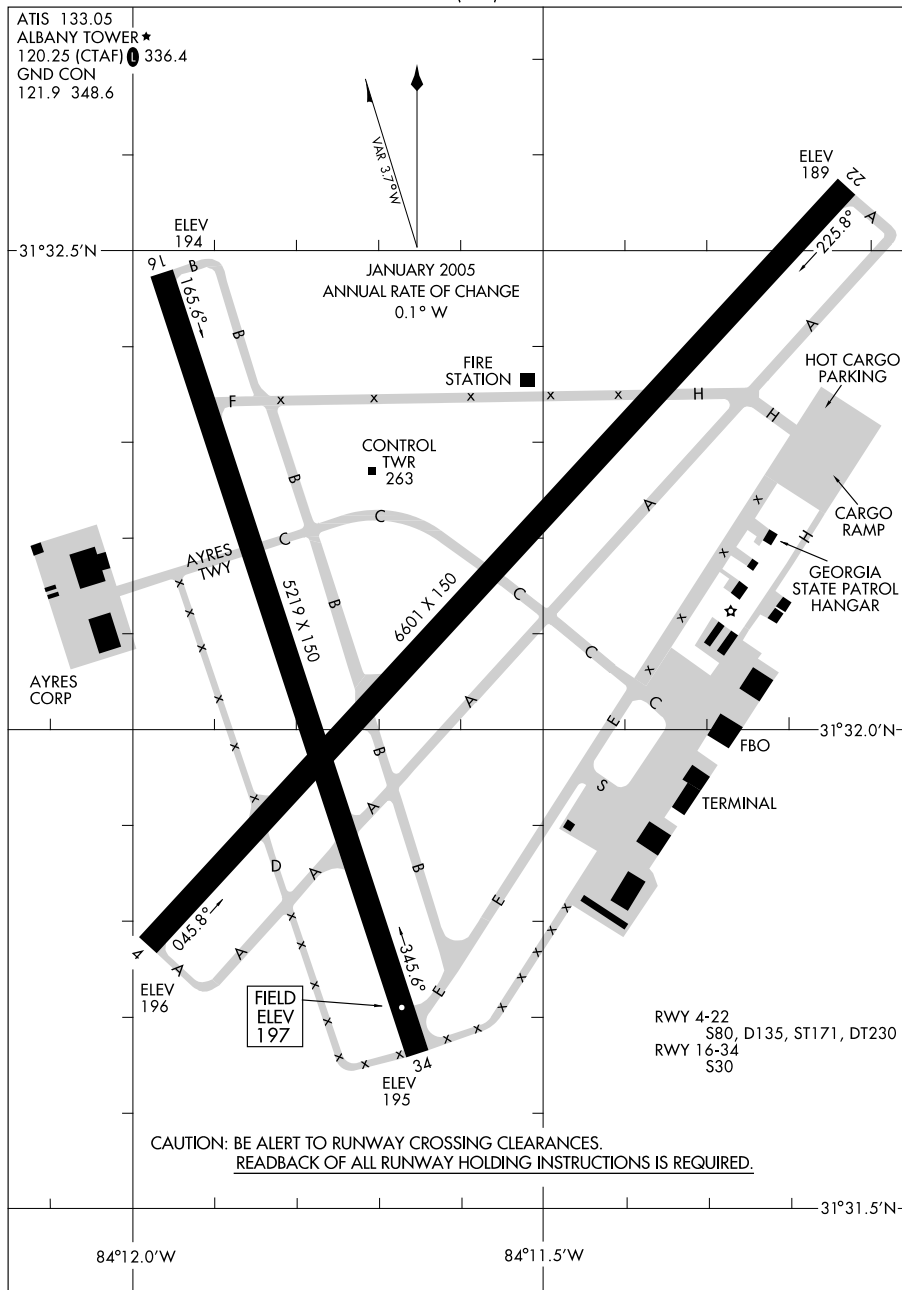
08213

## AIRPORT DIAGRAM

ALBANY/SOUTHWEST GEORGIA RGNL (ABY)

AL-8 (FAA)

ALBANY, GEORGIA



## AIRPORT DIAGRAM

08213

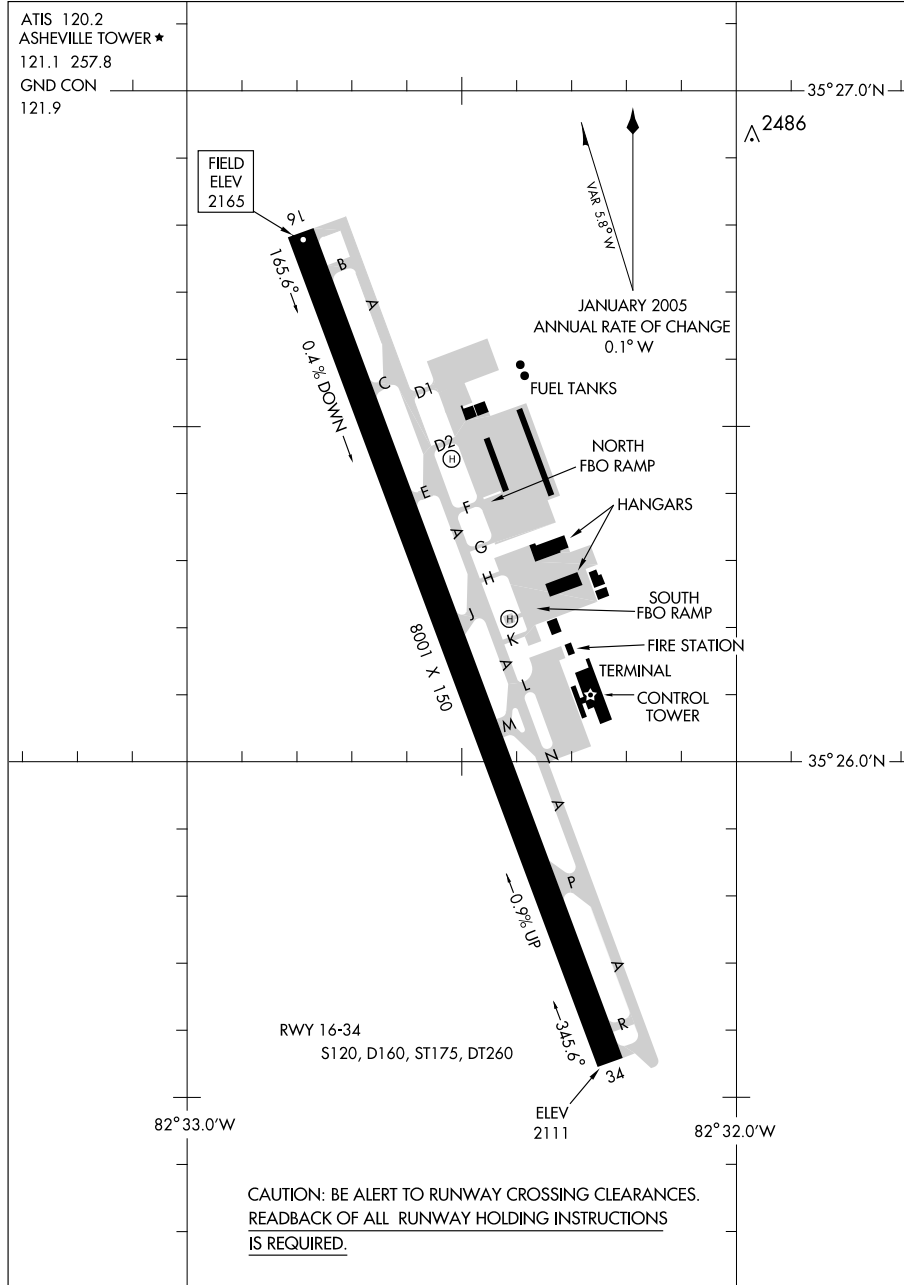
ALBANY, GEORGIA

ALBANY/SOUTHWEST GEORGIA RGNL (ABY)

08101

## AIRPORT DIAGRAM

AL-5061 (FAA)

ASHEVILLE RGNL (AVL)  
ASHEVILLE, NORTH CAROLINA

## AIRPORT DIAGRAM

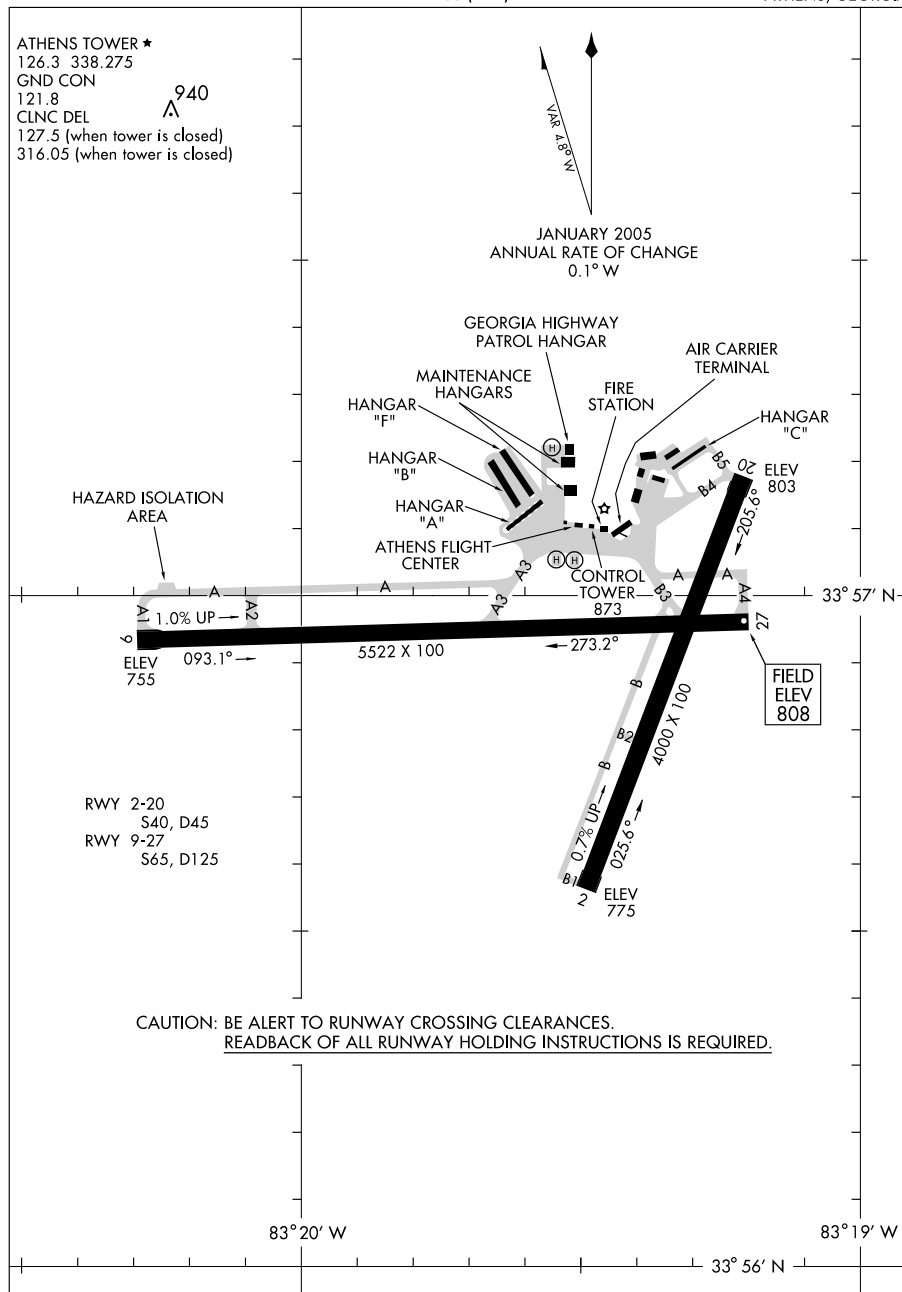
08101

ASHEVILLE, NORTH CAROLINA  
ASHEVILLE RGNL (AVL)

07018

## AIRPORT DIAGRAM

AL-983 (FAA)

ATHENS/ BEN EPPS (AHN)  
ATHENS, GEORGIA

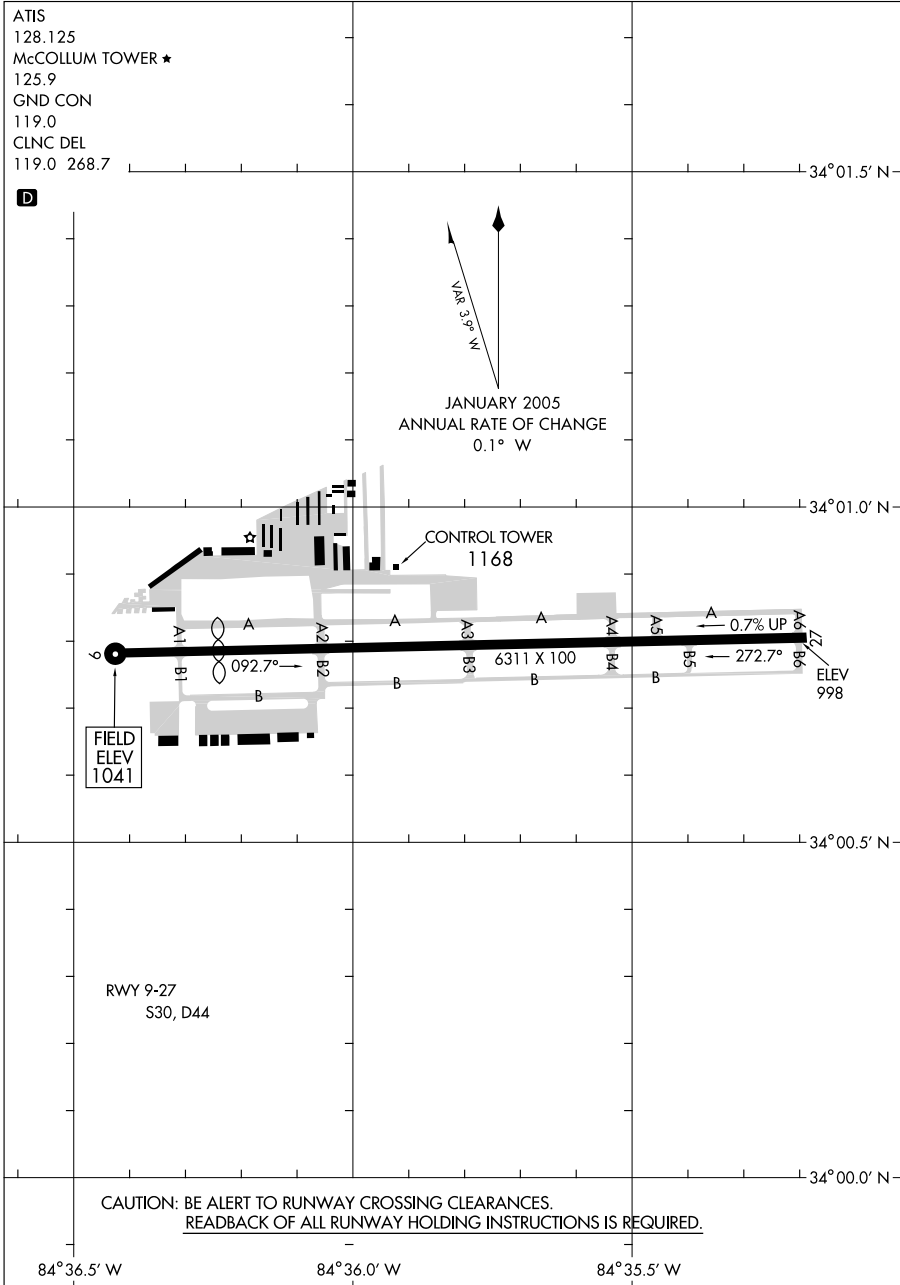
## AIRPORT DIAGRAM

07018

10042

## AIRPORT DIAGRAM

ATLANTA/ COBB COUNTY-McCOLLUM FIELD (RYY)  
AL-6424 (FAA) ATLANTA, GEORGIA



AIRPORT DIAGRAM

10042

ATLANTA, GEORGIA  
ATLANTA/ COBB COUNTY-McCOLLUM FIELD (RYY)

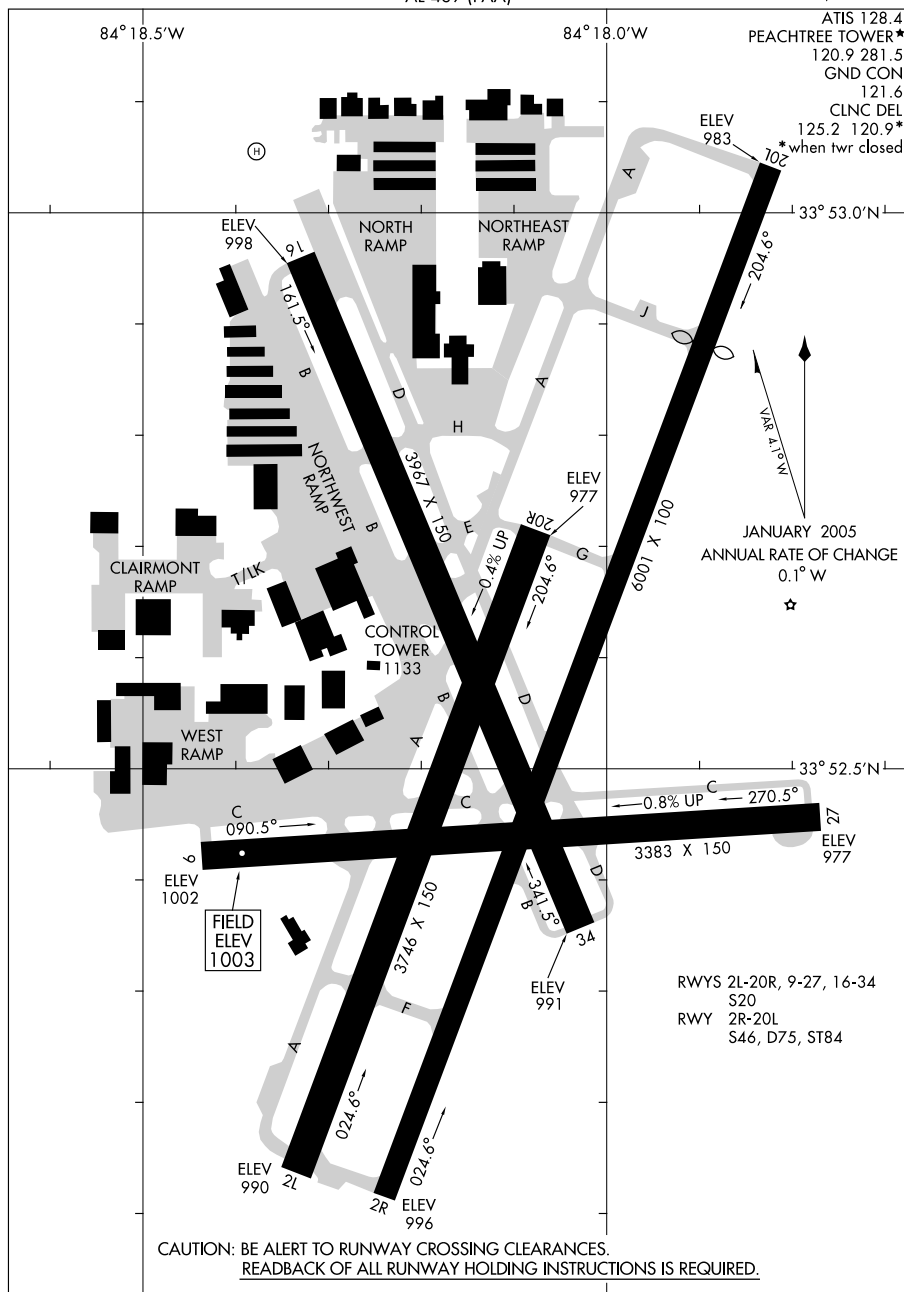
09015

## AIRPORT DIAGRAM

AL-469 (FAA)

ATLANTA/DEKALB-PEACHTREE (PDK)

ATLANTA, GEORGIA



## AIRPORT DIAGRAM

09015

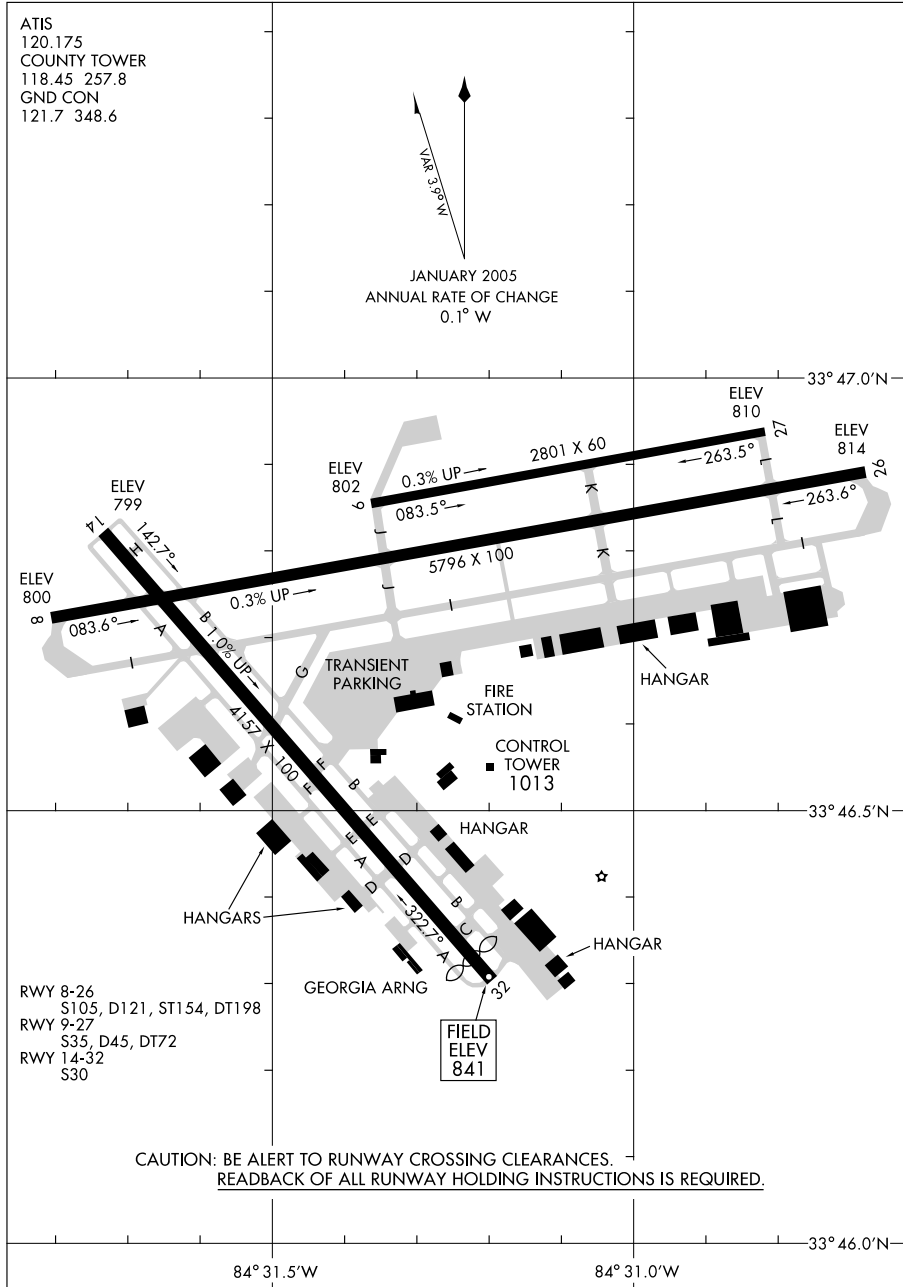
ATLANTA, GEORGIA  
ATLANTA/DEKALB-PEACHTREE (PDK)

09239

## AIRPORT DIAGRAM

ATLANTA/FULTON COUNTY AIRPORT-BROWN FIELD (FTY)  
AL-745 (FAA)

ATLANTA, GEORGIA



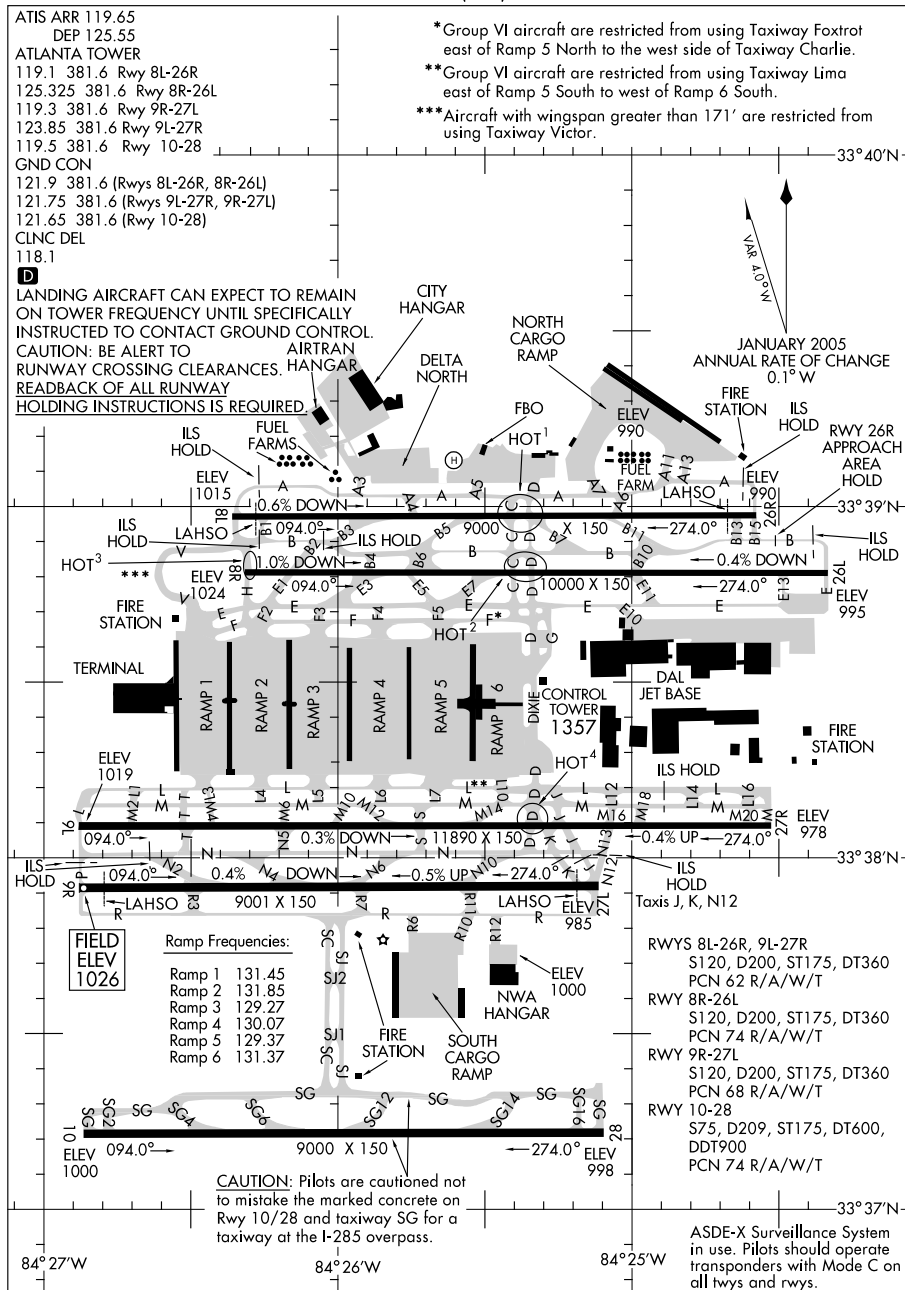
## AIRPORT DIAGRAM

09239

ATLANTA, GEORGIA  
ATLANTA/FULTON COUNTY AIRPORT-BROWN FIELD (FTY)

09351

## AIRPORT DIAGRAM

ATLANTA/ HARTSFIELD - JACKSON ATLANTA INTL (ATL)  
AL-26 (FAA) ATLANTA, GEORGIA

## AIRPORT DIAGRAM

09351

ATLANTA/ HARTSFIELD - JACKSON ATLANTA INTL (ATL)  
ATLANTA, GEORGIA



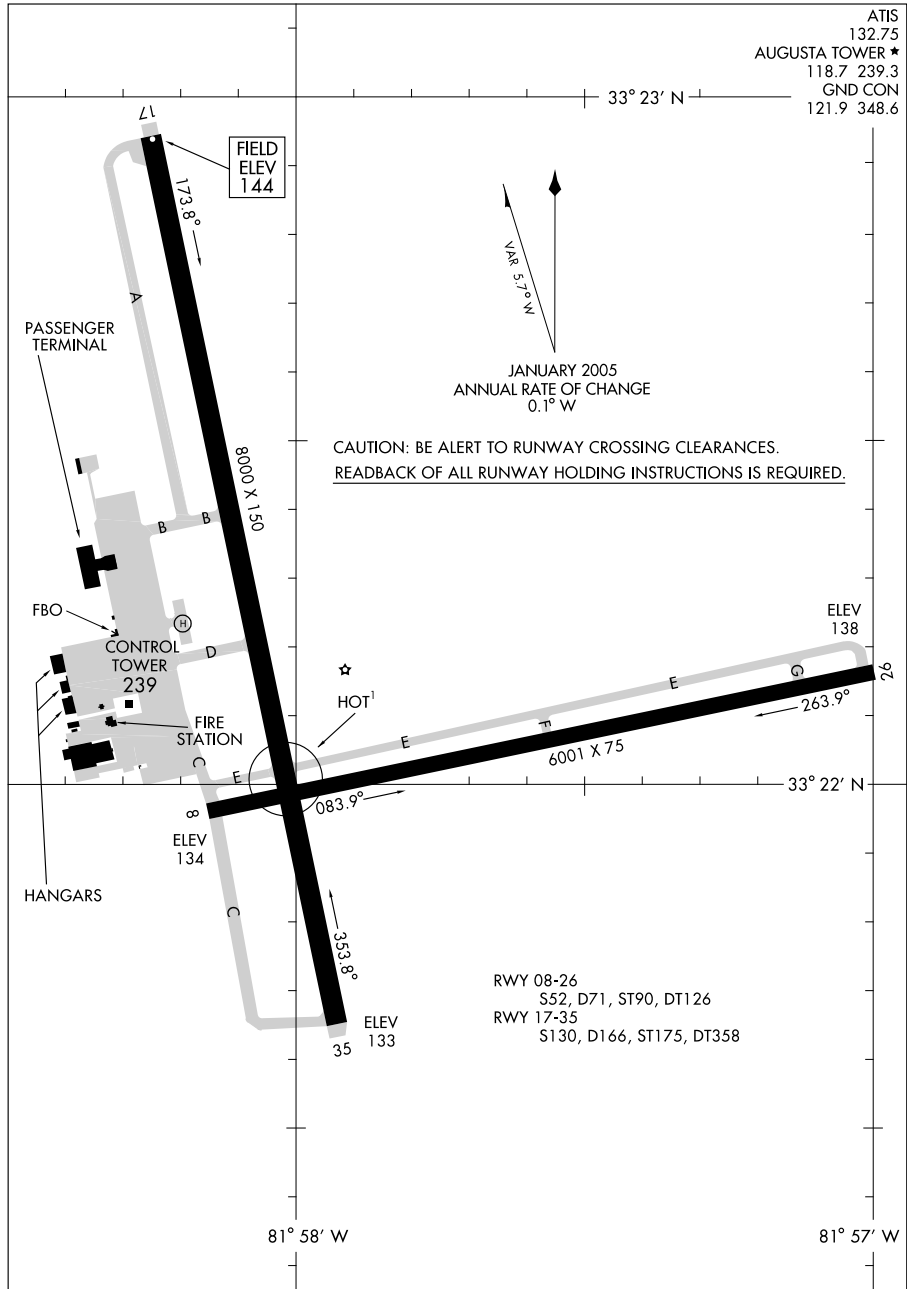
09071

## AIRPORT DIAGRAM

AL-27 (FAA)

AUGUSTA RGNL AT BUSH FIELD (AGS)

AUGUSTA, GEORGIA



## AIRPORT DIAGRAM

09071

AUGUSTA, GEORGIA  
AUGUSTA RGNL AT BUSH FIELD (AGS)

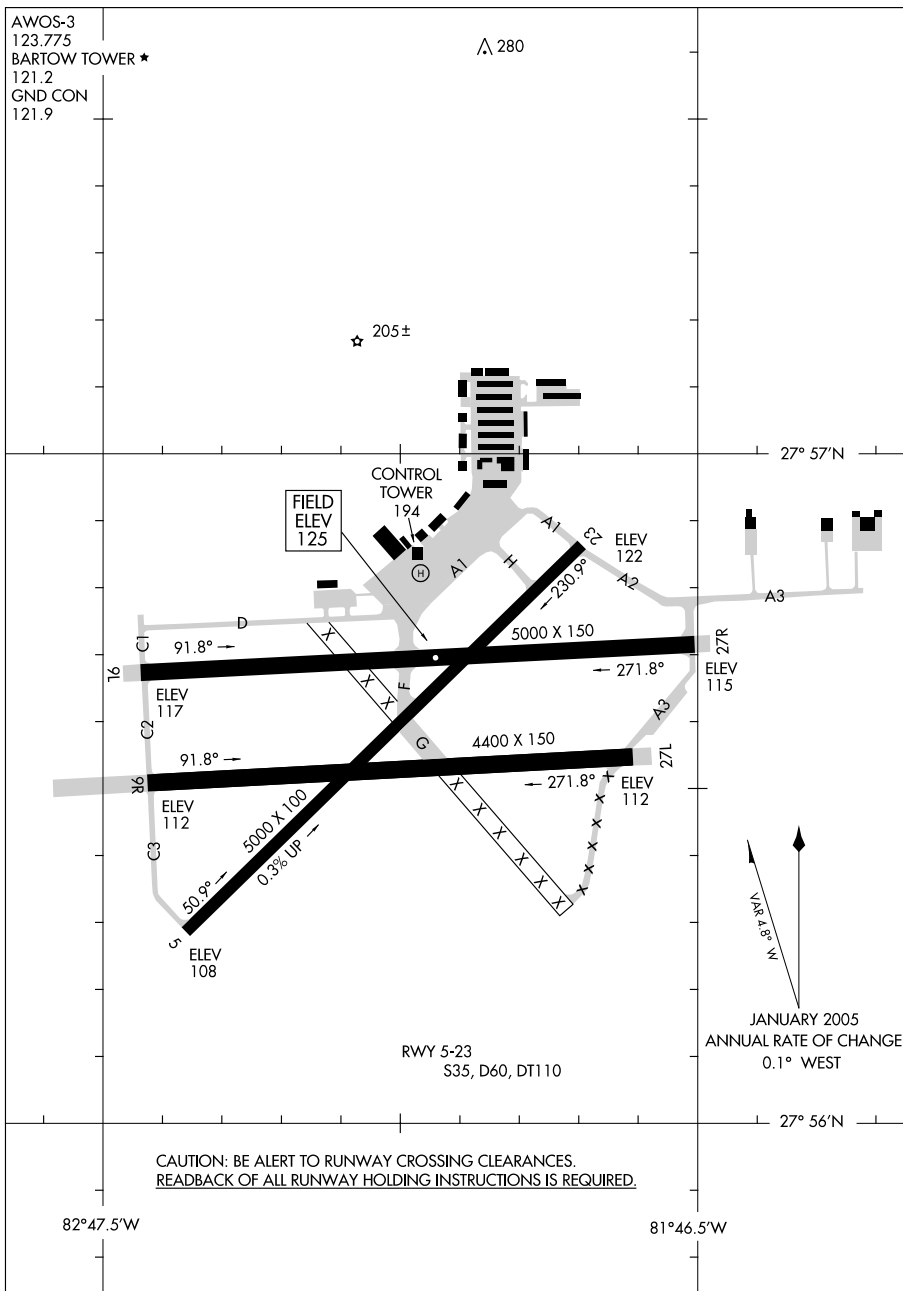
09071

## AIRPORT DIAGRAM

AL-5838 (FAA)

BARTOW MUNI (BOW)

BARTOW, FLORIDA



## AIRPORT DIAGRAM

BARTOW MUNI (BOW)

09071

BARTOW, FLORIDA

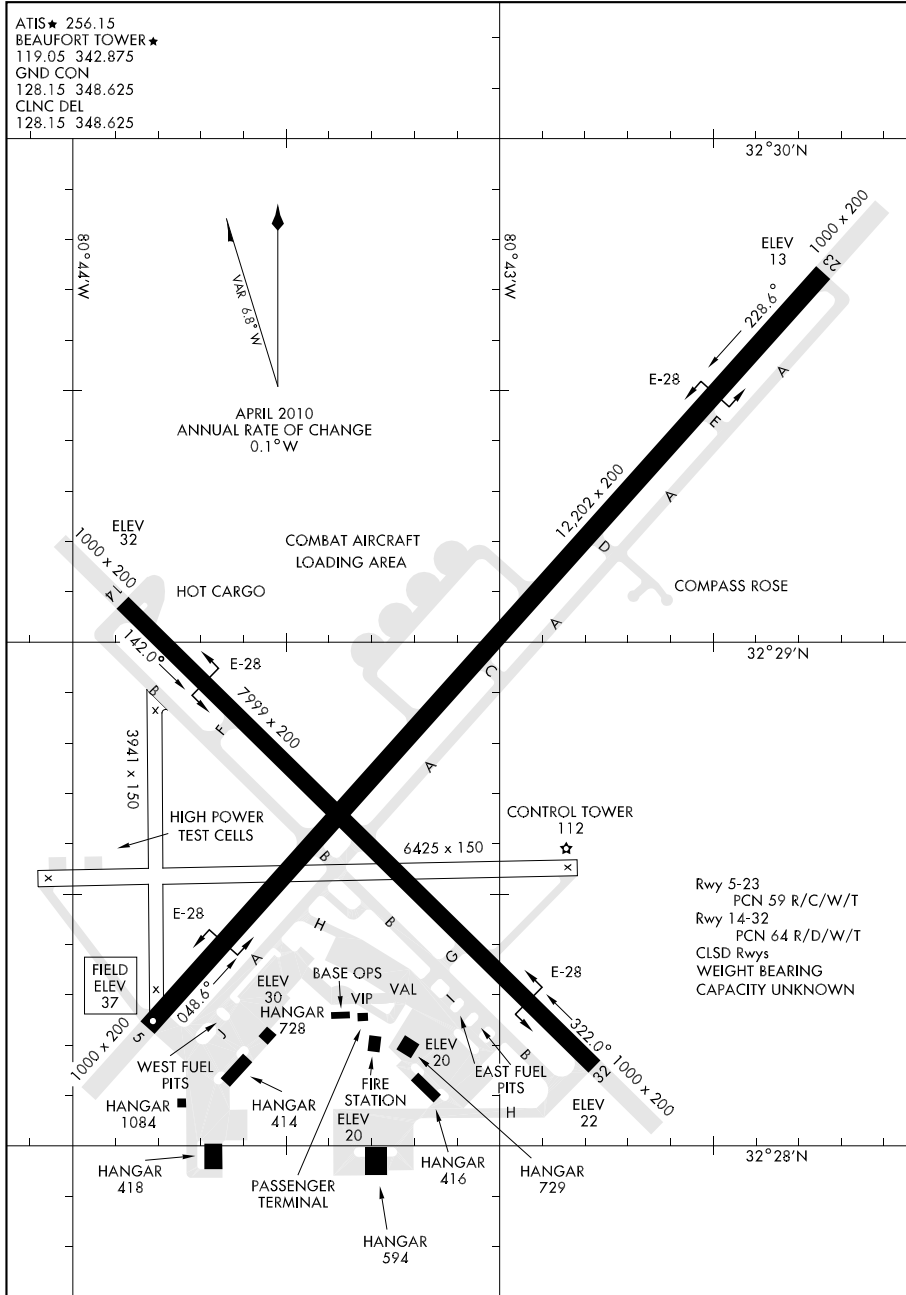
10098

## AIRPORT DIAGRAM

BEAUFORT MCAS (MERRITT FIELD) (KNBC)

AFD-916 [USN]

BEAUFORT, SOUTH CAROLINA



## AIRPORT DIAGRAM

BEAUFORT, SOUTH CAROLINA  
BEAUFORT MCAS (MERRITT FIELD) (KNBC)

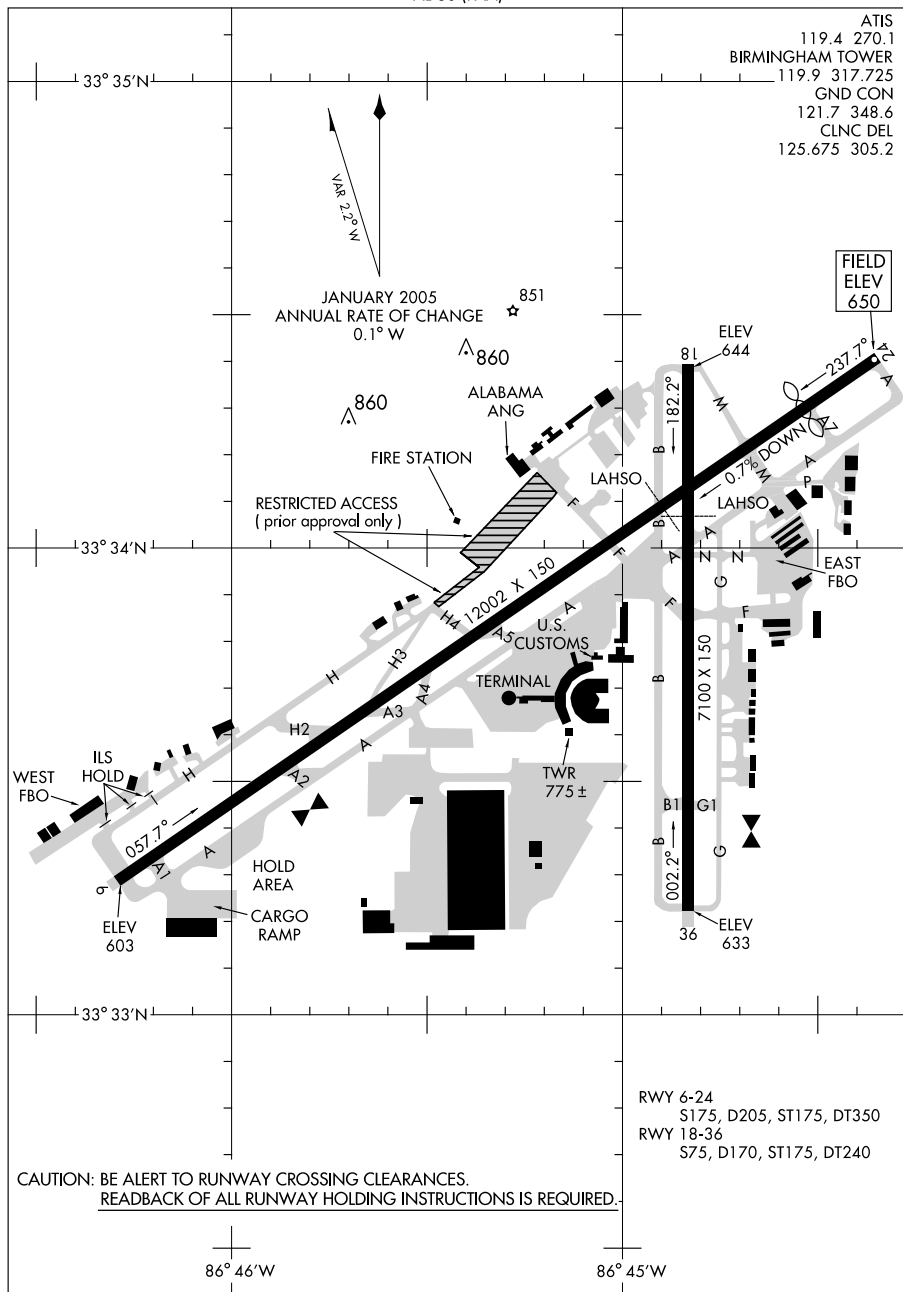
10098

## AIRPORT DIAGRAM

BIRMINGHAM-SHUTTLESWORTH INTL (BHM)

AL-50 (FAA)

BIRMINGHAM, ALABAMA



## AIRPORT DIAGRAM

10098

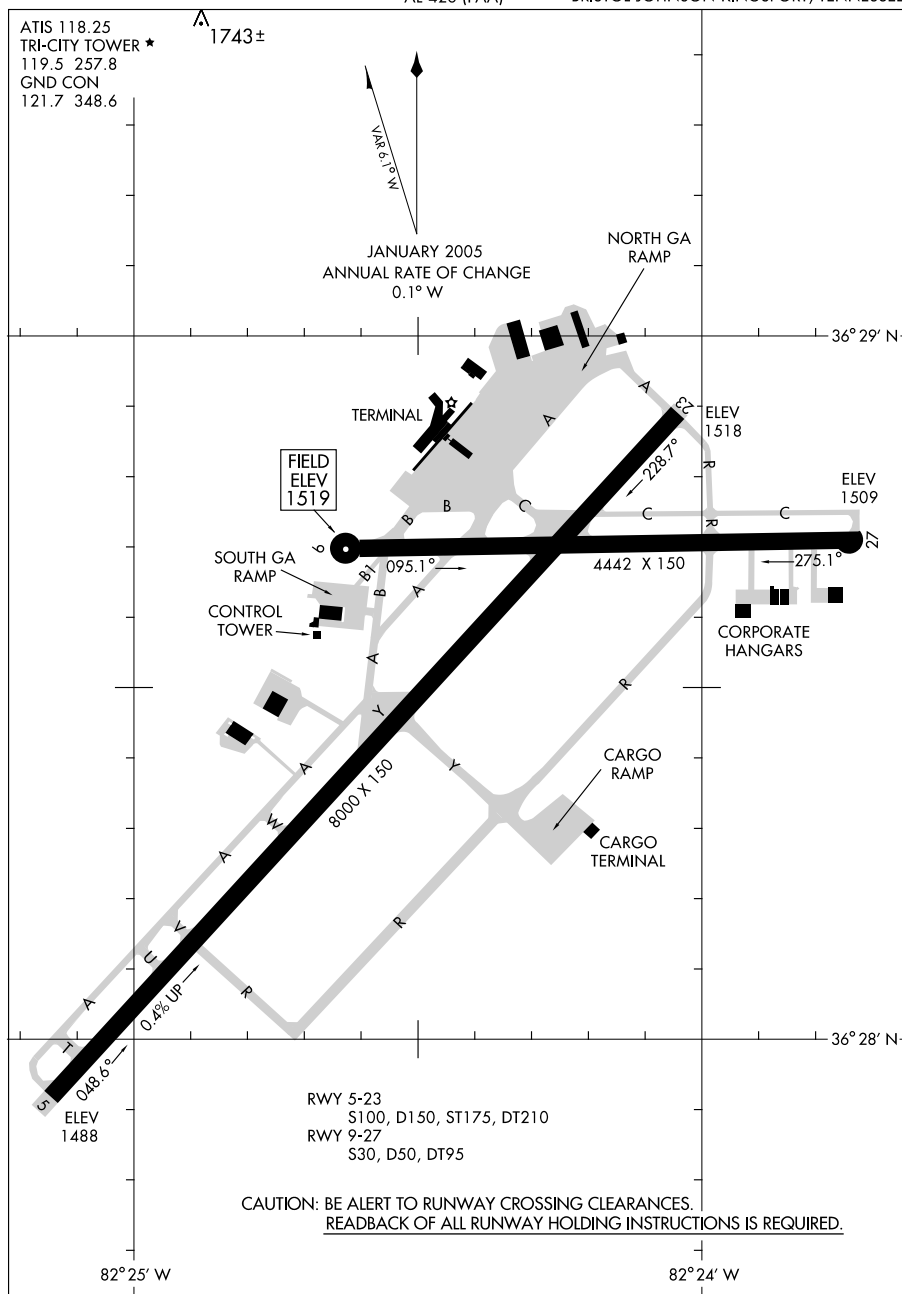
BIRMINGHAM, ALABAMA  
BIRMINGHAM-SHUTTLESWORTH INTL (BHM)

BOCA RATON (BCT)  
BOCA RATON, FLORIDA

07298

## AIRPORT DIAGRAM

AL-426 (FAA)

BRISTOL/TRI-CITIES RGNL TN/VA (TRI)  
BRISTOL-JOHNSON-KINGSPORT, TENNESSEE

## AIRPORT DIAGRAM

07298

BRISTOL-JOHNSON-KINGSPORT, TENNESSEE  
BRISTOL/TRI-CITIES RGNL TN/VA (TRI)

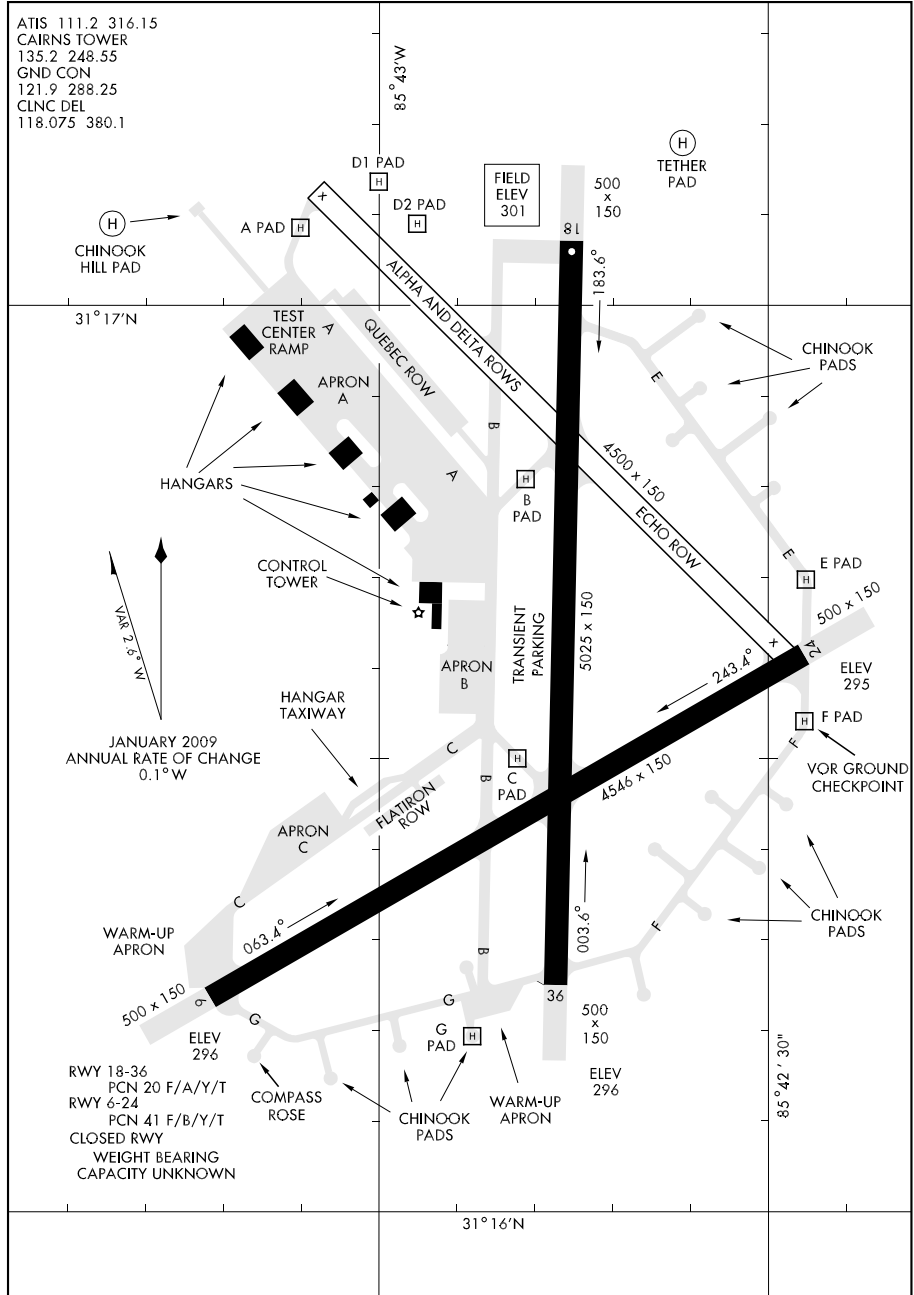
09015

## AIRPORT DIAGRAM

[USA] AFD-577

CAIRNS AAF (KOZR)

FORT RUCKER, ALABAMA



## AIRPORT DIAGRAM

FORT RUCKER, ALABAMA

CAIRNS AAF (KOZR)

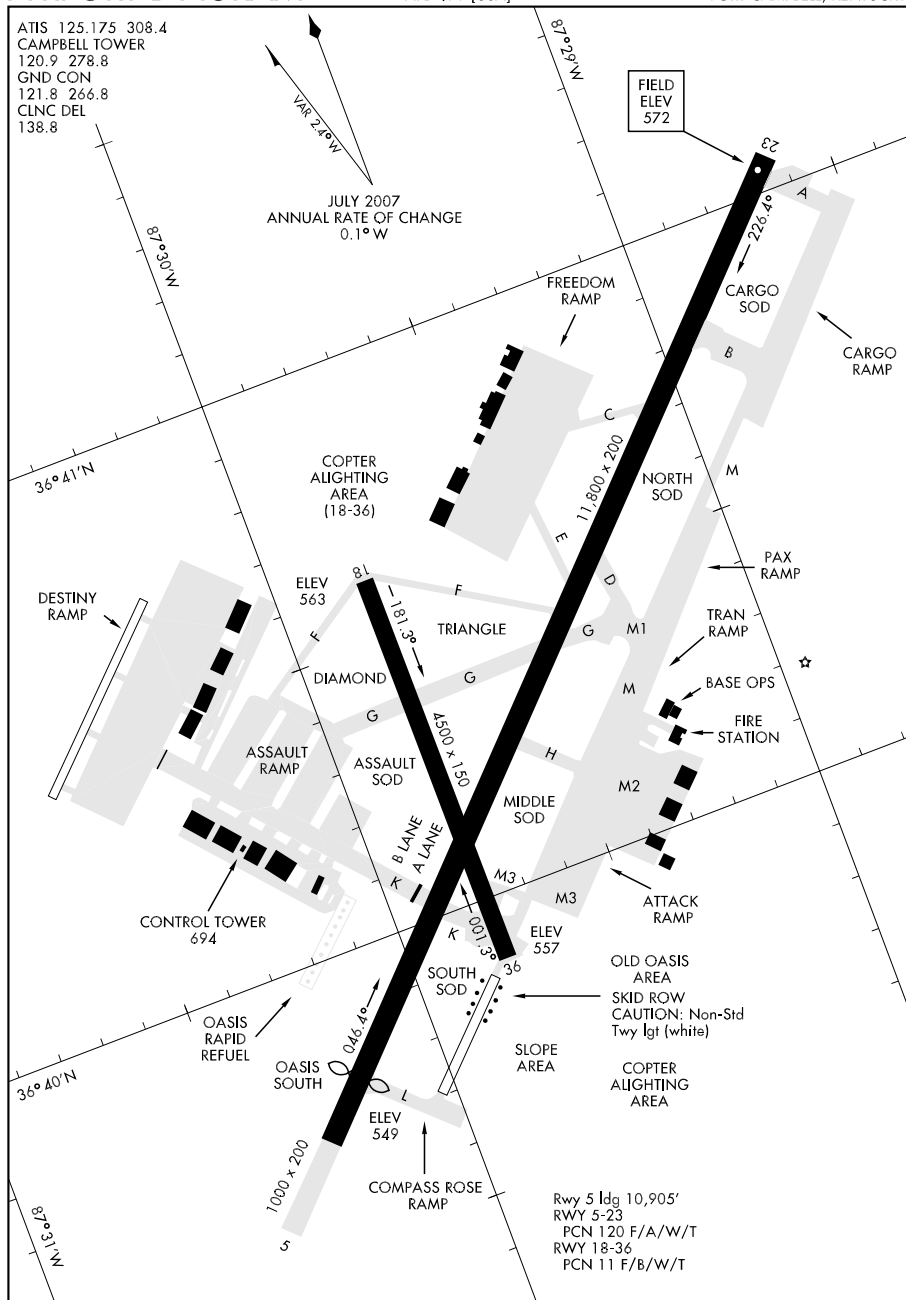
07186

## AIRPORT DIAGRAM

AFD-679 [USA]

CAMPBELL AAF (KHOP)

FORT CAMPBELL, KENTUCKY



## AIRPORT DIAGRAM

WGS-84 DATUM

 FORT CAMPBELL, KENTUCKY  
 CAMPBELL AAF (KHOP)



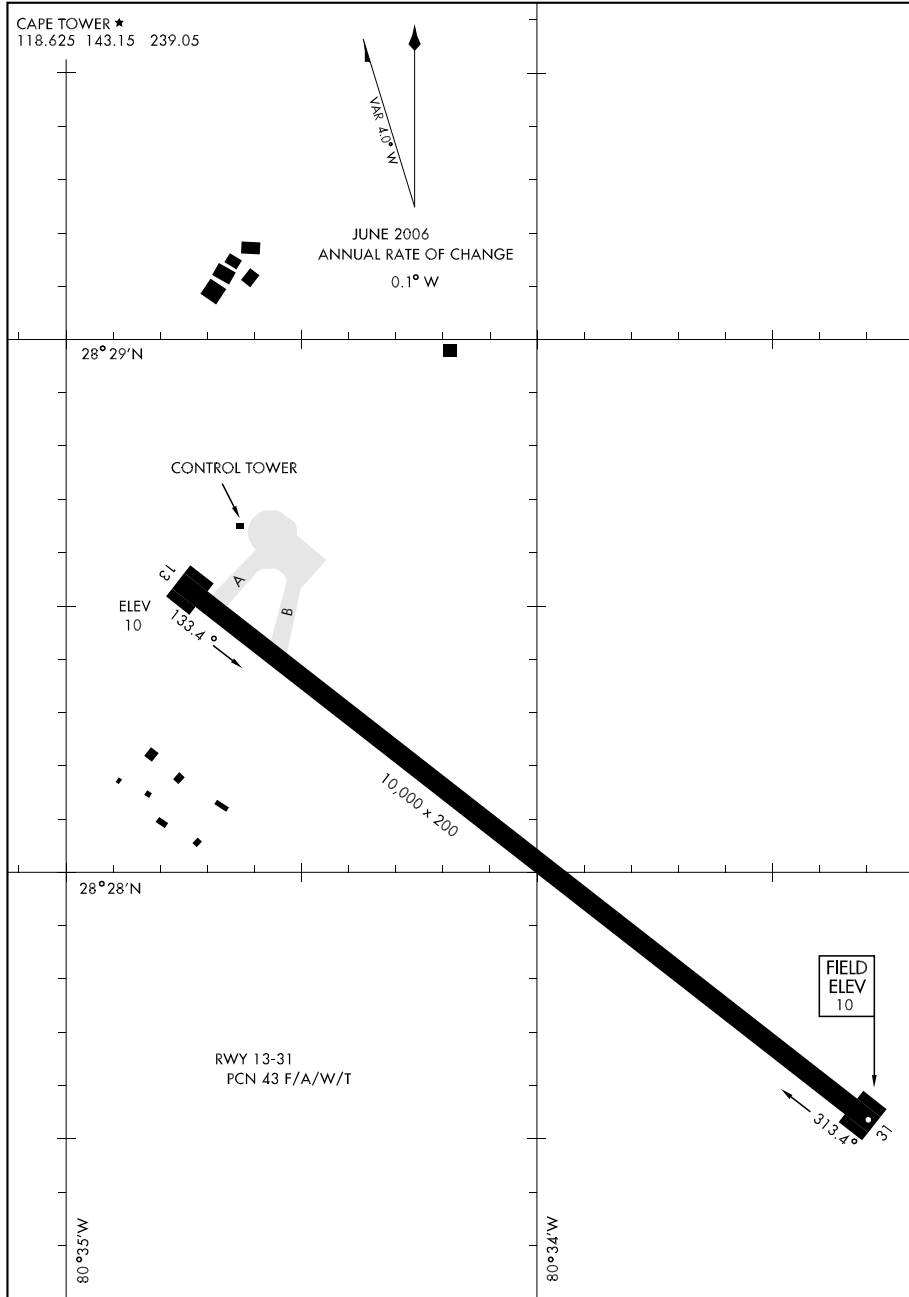
06159

CAPE CANAVERAL AFS SKID STRIP (KXMR)

## AIRPORT DIAGRAM

AFD-5157 [USAF]

COCOA BEACH, FLORIDA



## AIRPORT DIAGRAM

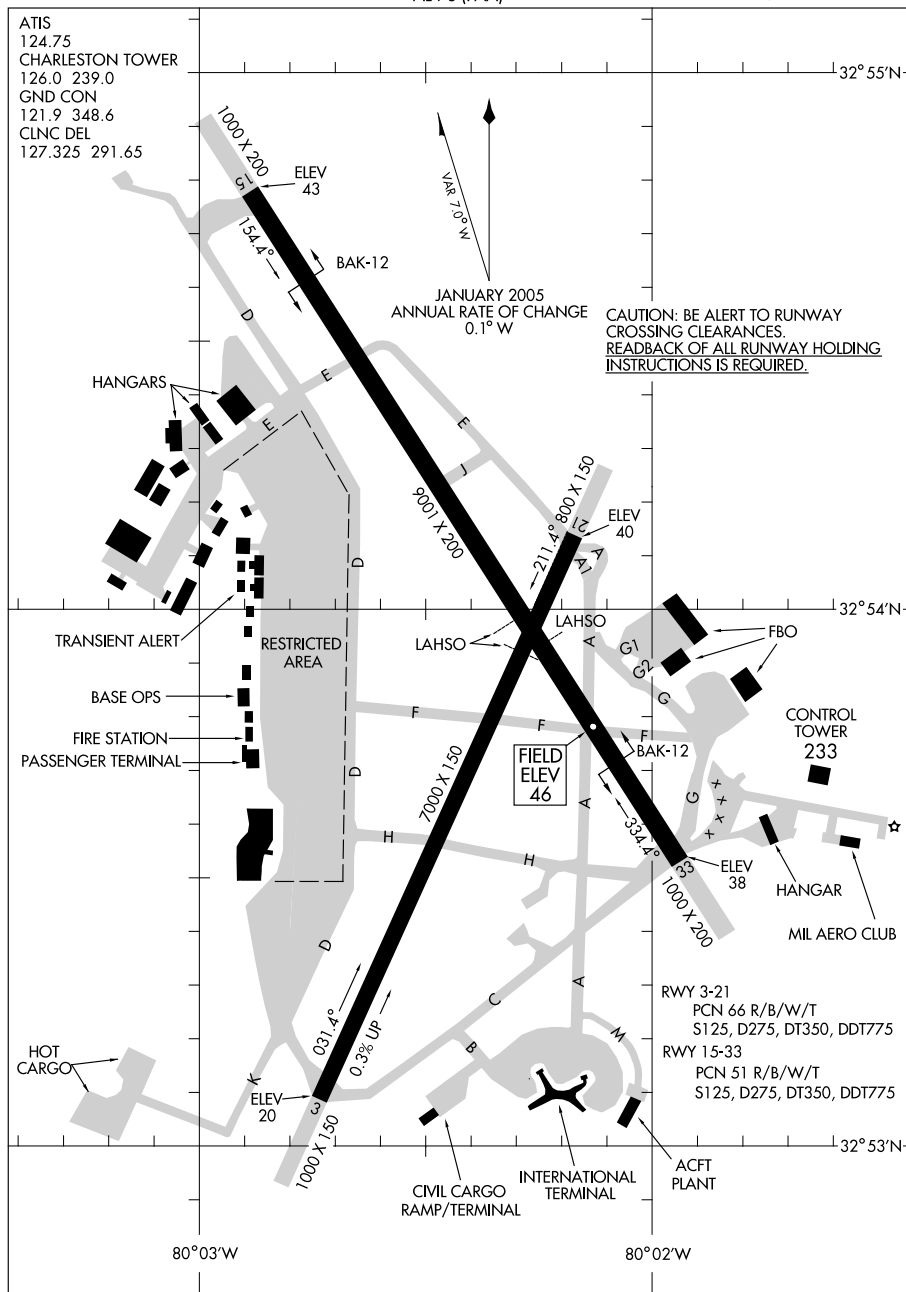
COCOA BEACH, FLORIDA

CAPE CANAVERAL AFS SKID STRIP (KXMR)

10042

## AIRPORT DIAGRAM

AL-76 (FAA)

CHARLESTON AFB/INTL (CHS)  
CHARLESTON, SOUTH CAROLINA

## AIRPORT DIAGRAM

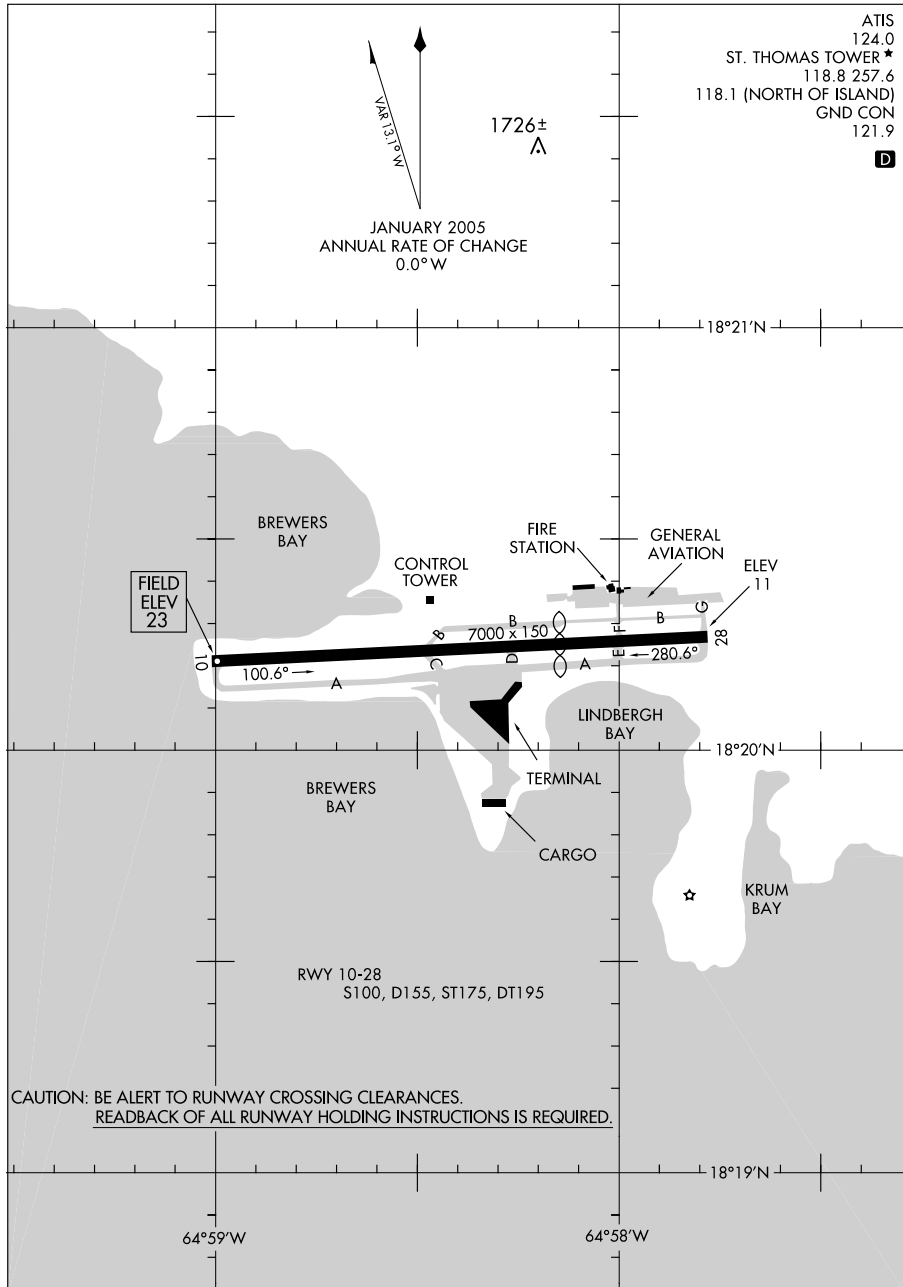
10042

CHARLESTON, SOUTH CAROLINA  
CHARLESTON AFB/INTL (CHS)

09183

## AIRPORT DIAGRAM

CHARLOTTE AMALIE/ CYRIL E KING (STT)(TIST)  
AL-5005 (FAA) ST. THOMAS, VIRGIN ISLANDS



## AIRPORT DIAGRAM

09183

ST. THOMAS, VIRGIN ISLANDS  
CHARLOTTE AMALIE/ CYRIL E KING (STT)(TIST)

10098

## AIRPORT DIAGRAM

AL-78 (FAA)

CHARLOTTE/DOUGLAS INTL (CLT)

CHARLOTTE, NORTH CAROLINA

ATIS ARR 121.15

DEP 132.1

CHARLOTTE TOWER

118.1 257.8 (Rwys 18L-36R, 5-23)

126.4 257.8 (Rwy 18C-36C)

133.35 257.8 (Rwy 18R-36L)

GND CON

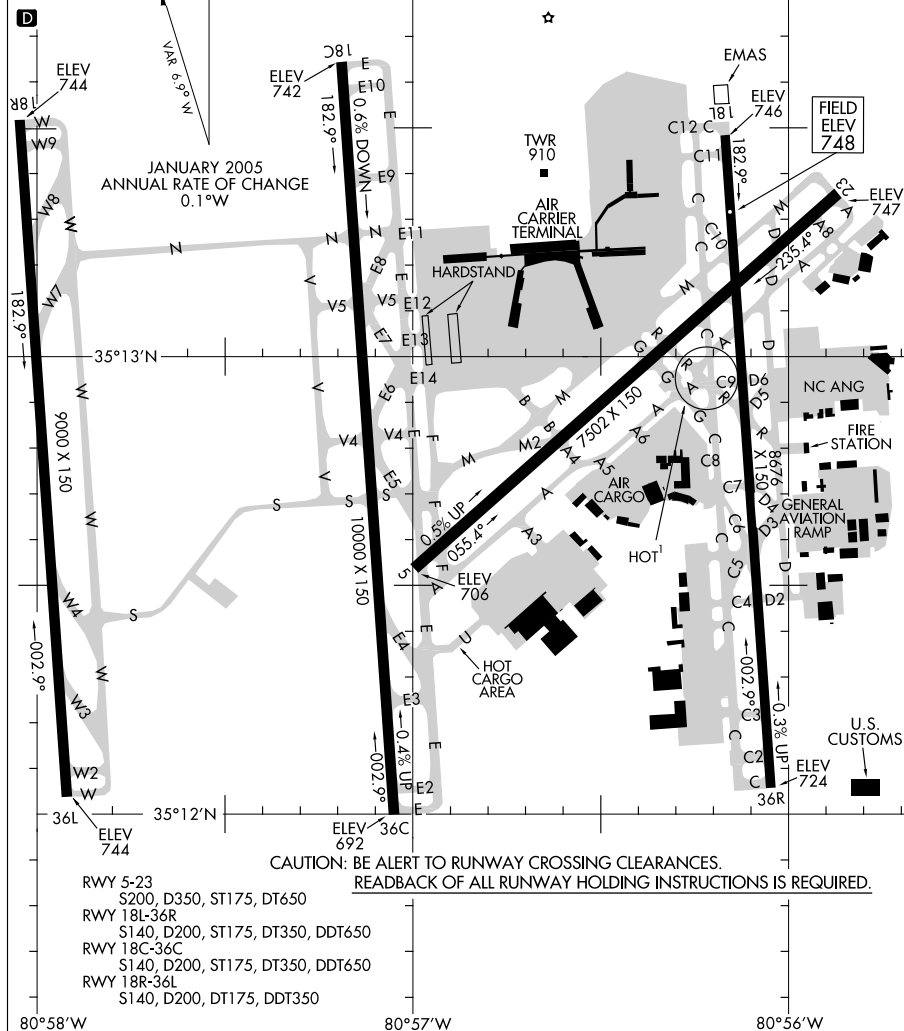
121.8 348.6 (180°-359°)

121.9 348.6 (360°-179°)

CLNC DEL

127.15 348.6

ASDE-X Surveillance system in use.

Pilots should operate transponders with  
Mode C on all twys and rwys.

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.

READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

RWY 5-23

S200, D350, ST175, DT650

RWY 18L-36R

S140, D200, ST175, DT350, DDT650

RWY 18C-36C

S140, D200, ST175, DT350, DDT650

RWY 18R-36L

S140, D200, DT175, DDT350

## AIRPORT DIAGRAM

10098

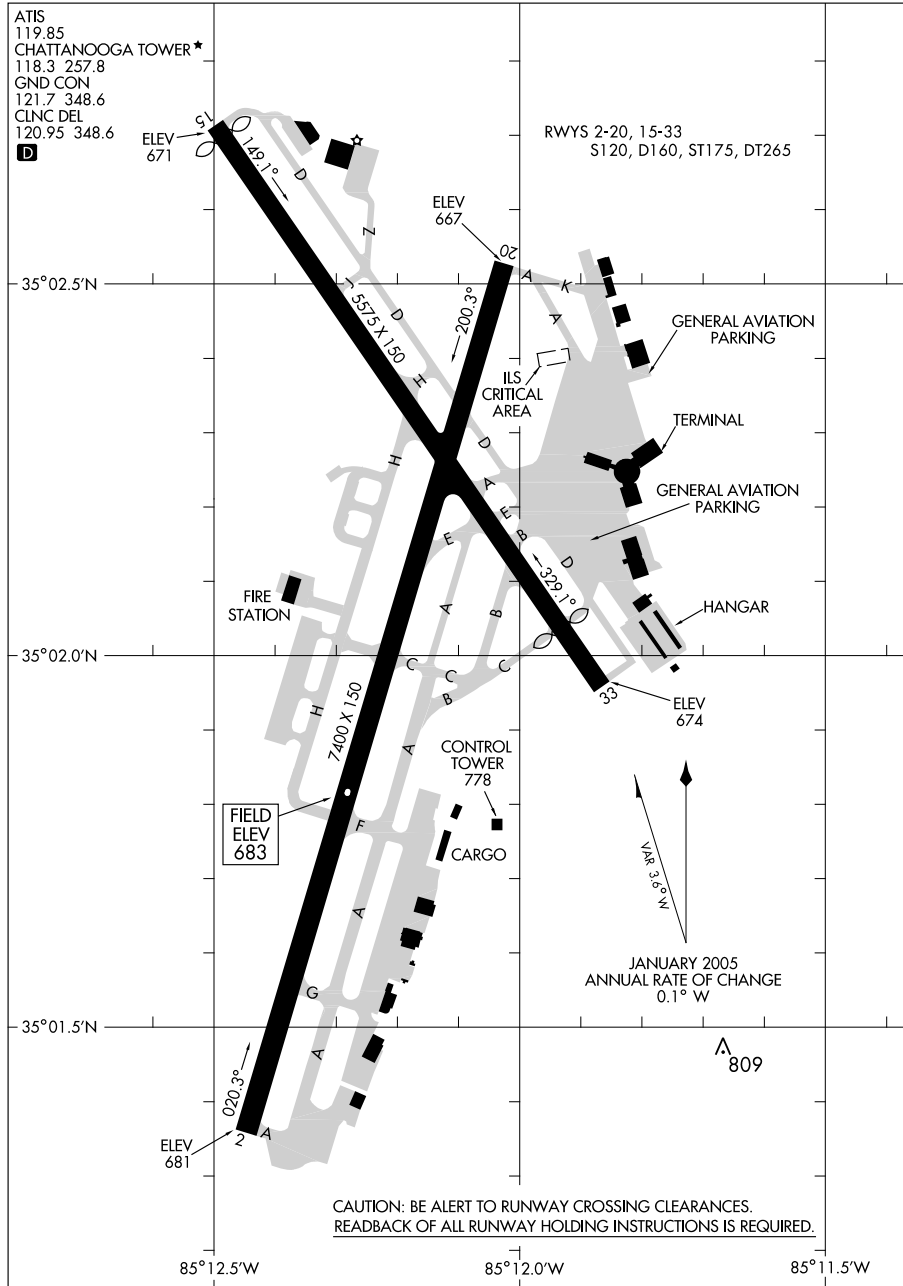
CHARLOTTE, NORTH CAROLINA

CHARLOTTE/DOUGLAS INTL (CLT)

09295

## AIRPORT DIAGRAM

AL-79 (FAA)

CHATTANOOGA/LOVELL FIELD (CHA)  
CHATTANOOGA, TENNESSEE

## AIRPORT DIAGRAM

09295

CHATTANOOGA, TENNESSEE  
CHATTANOOGA/LOVELL FIELD (CHA)

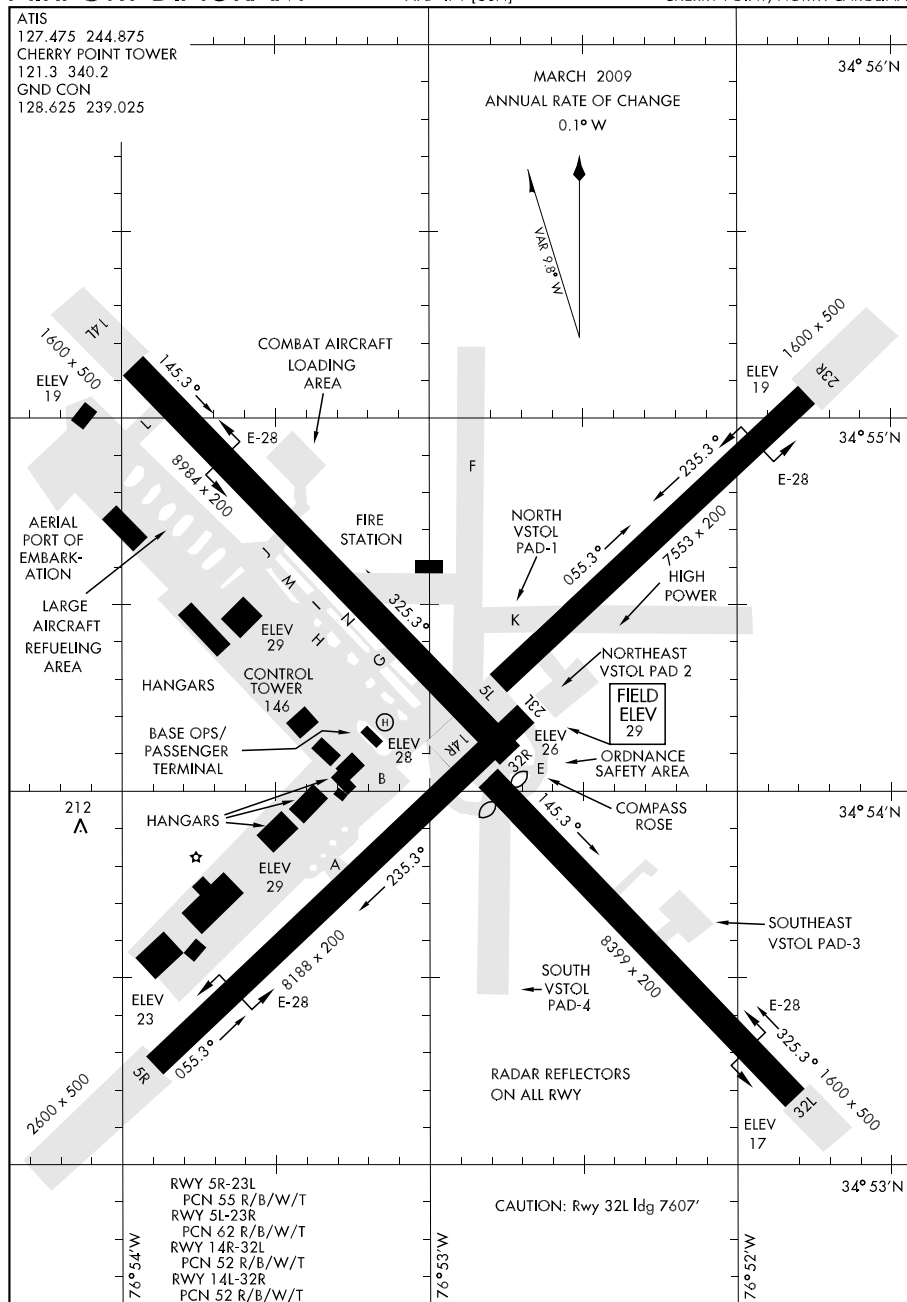
09071

## AIRPORT DIAGRAM

AFD-471 [USN]

CHERRY POINT MCAS (KNKT)

CHERRY POINT, NORTH CAROLINA



## AIRPORT DIAGRAM

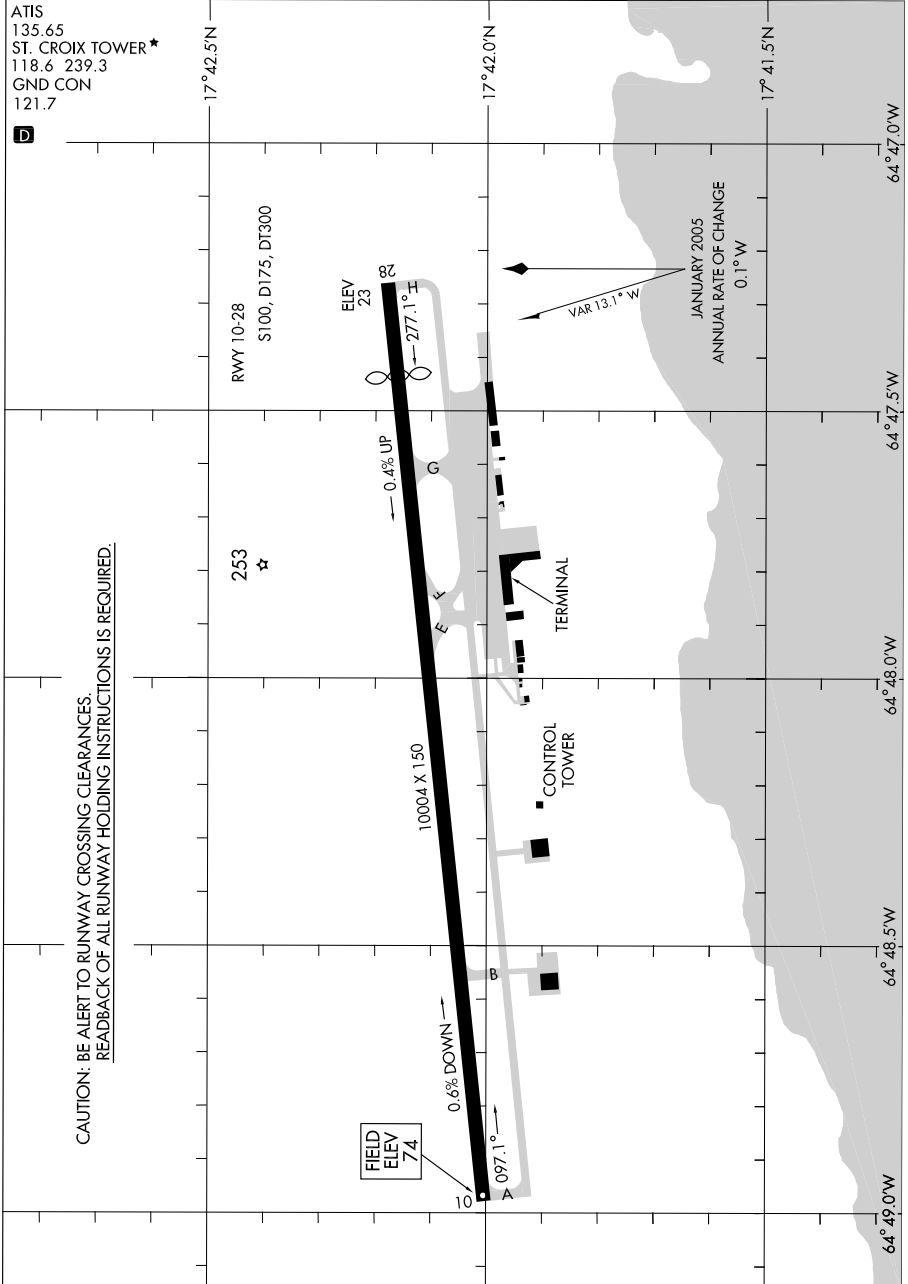
CHERRY POINT, NORTH CAROLINA

CHERRY POINT MCAS (KNKT)

09183

# AIRPORT DIAGRAM

CHRISTIANSTED, ST. CROIX/HENRY E ROHLSSEN (STX)(TISX)  
AL-5008 (FAA) CHRISTIANSTED, ST. CROIX, VIRGIN ISLANDS



# AIRPORT DIAGRAM

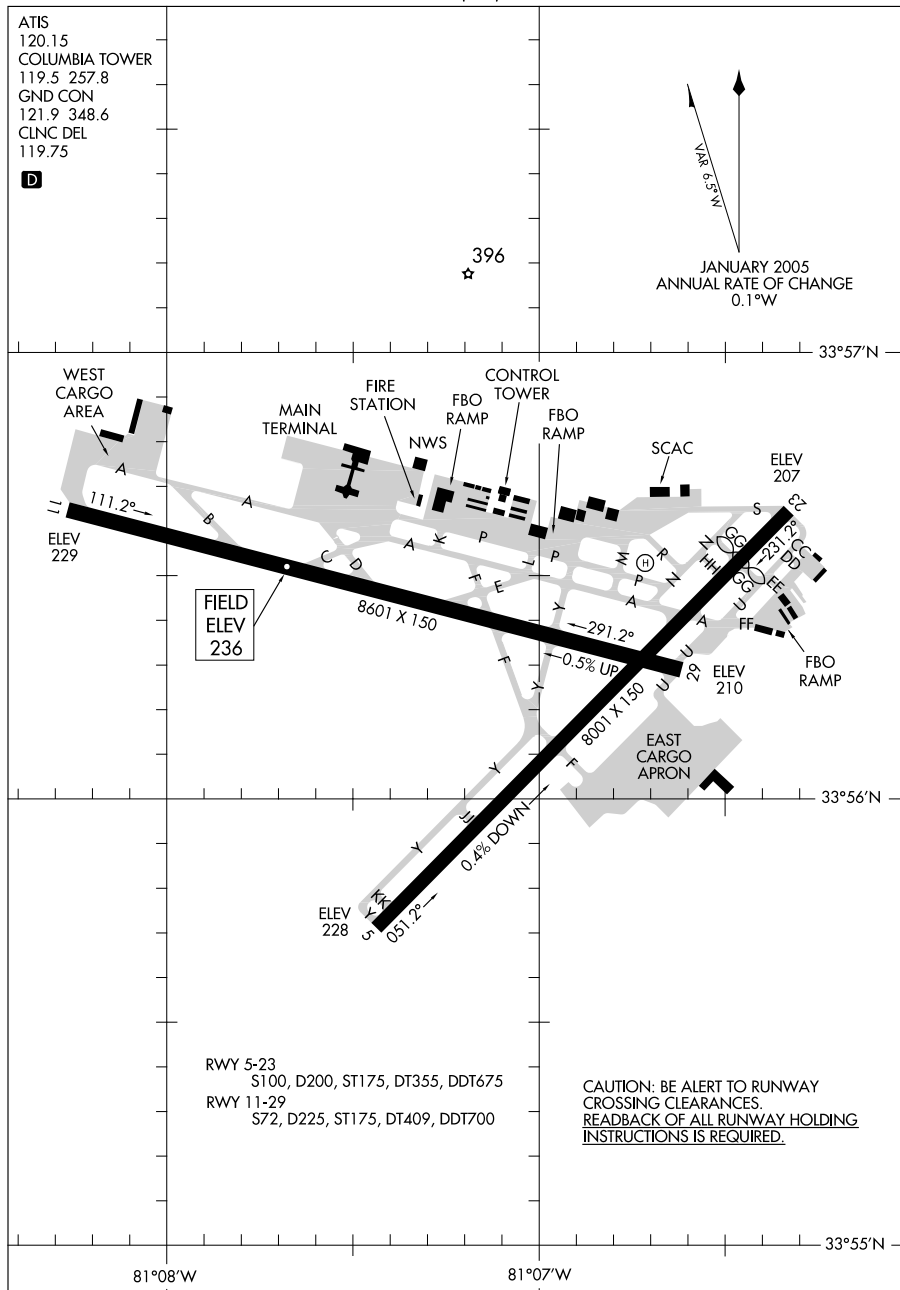
09183

CHRISTIANSTED, ST. CROIX, VIRGIN ISLANDS  
CHRISTIANSTED, ST. CROIX/HENRY E ROHLSSEN (STX)(TISX)

10042

## AIRPORT DIAGRAM

AL-89 (FAA)

COLUMBIA METROPOLITAN (CAE)  
COLUMBIA, SOUTH CAROLINA

## AIRPORT DIAGRAM

10042

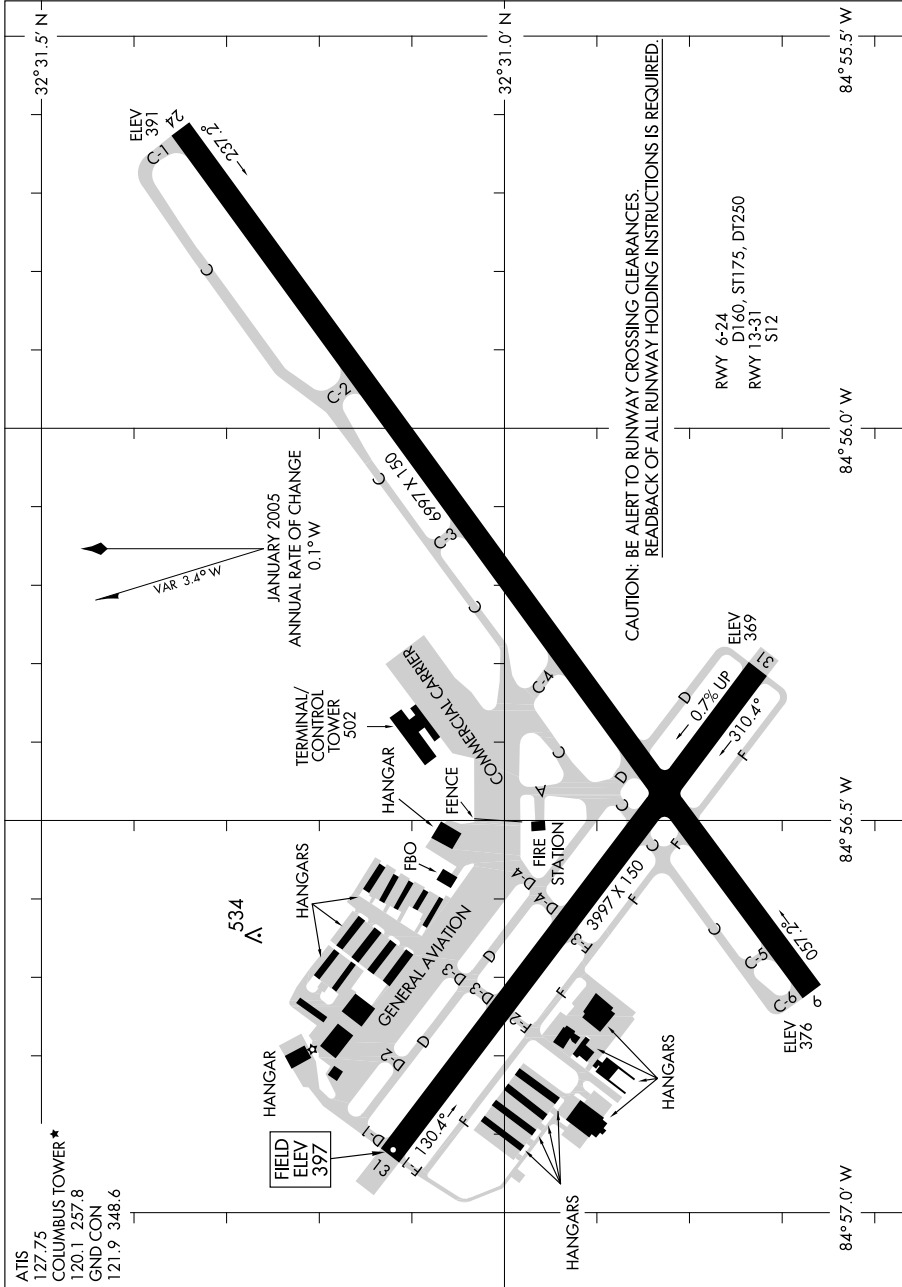
COLUMBIA, SOUTH CAROLINA  
COLUMBIA METROPOLITAN (CAE)



09071

## AIRPORT DIAGRAM

AL-636 (FAA)

COLUMBUS METROPOLITAN (CSG)  
COLUMBUS, GEORGIA

## AIRPORT DIAGRAM

09071

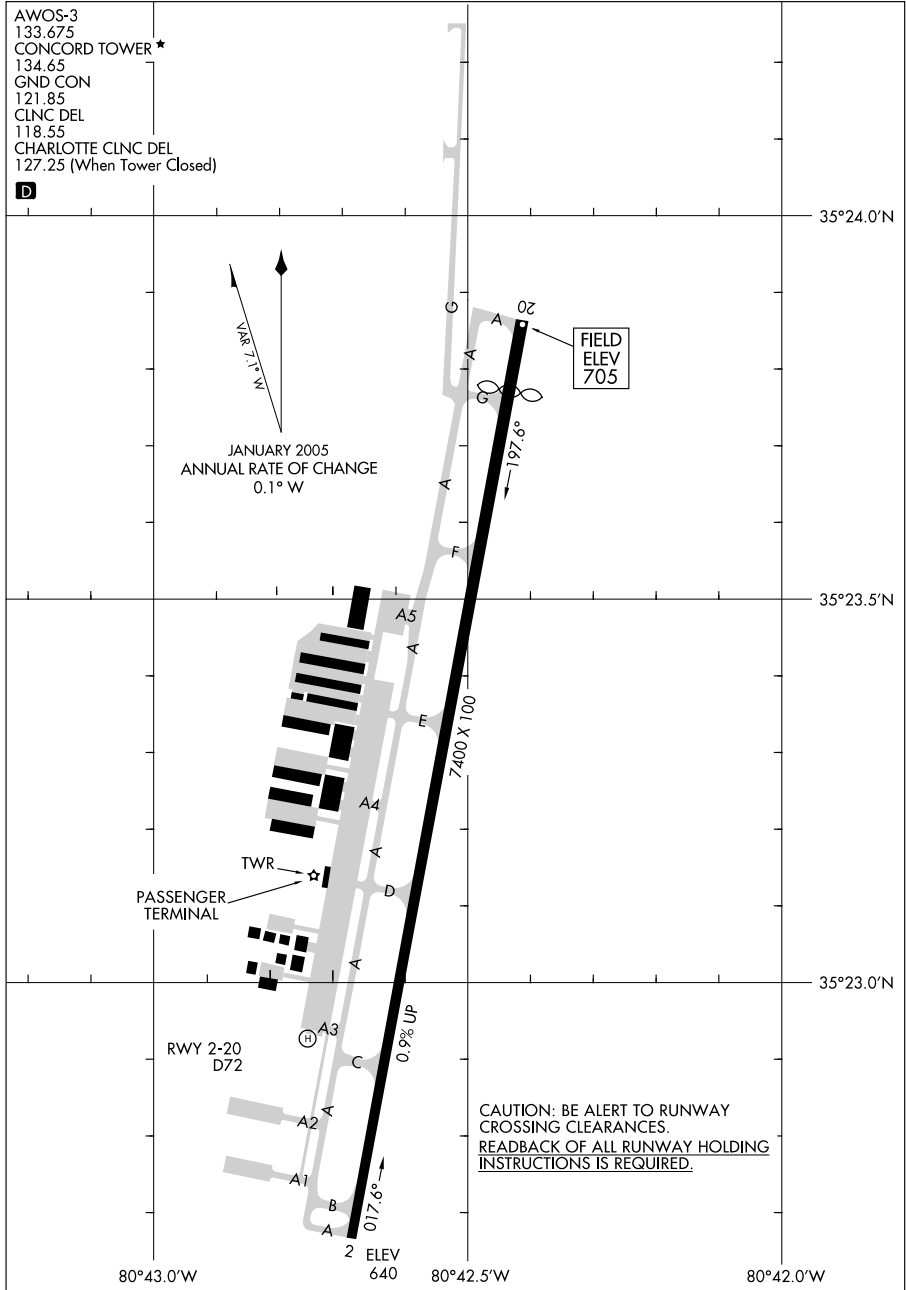
COLUMBUS, GEORGIA  
COLUMBUS METROPOLITAN (CSG)

09239

AIRPORT DIAGRAM

AL-9155 (FAA)

CONCORD RGNL (JQF)  
CONCORD, NORTH CAROLINA



AIRPORT DIAGRAM

09239

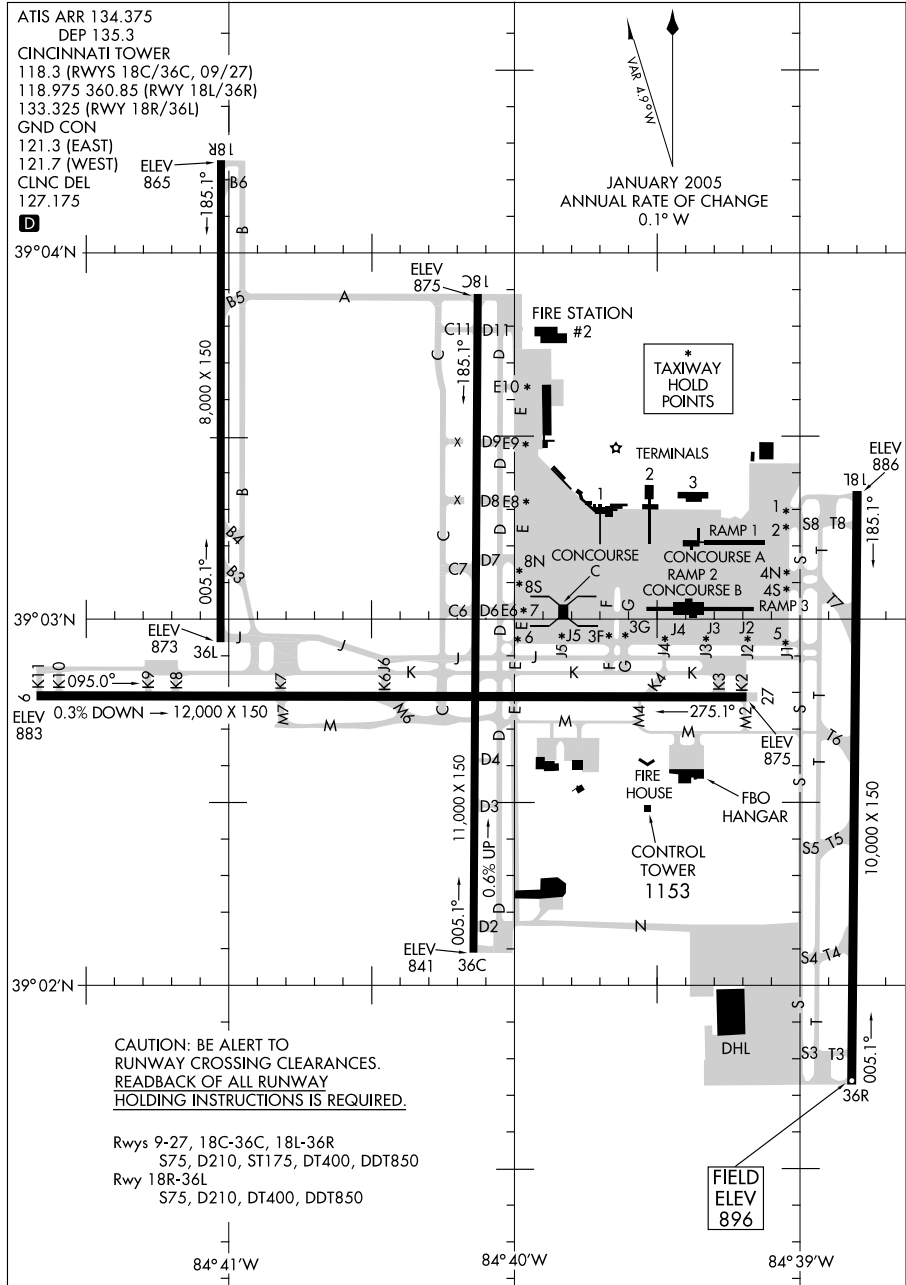
CONCORD, NORTH CAROLINA  
CONCORD RGNL (JQF)

08325

## AIRPORT DIAGRAM

COVINGTON/ CINCINNATI/ NORTHERN KENTUCKY INTL (CVG)  
AL-655 (FAA)

COVINGTON, KENTUCKY



## AIRPORT DIAGRAM

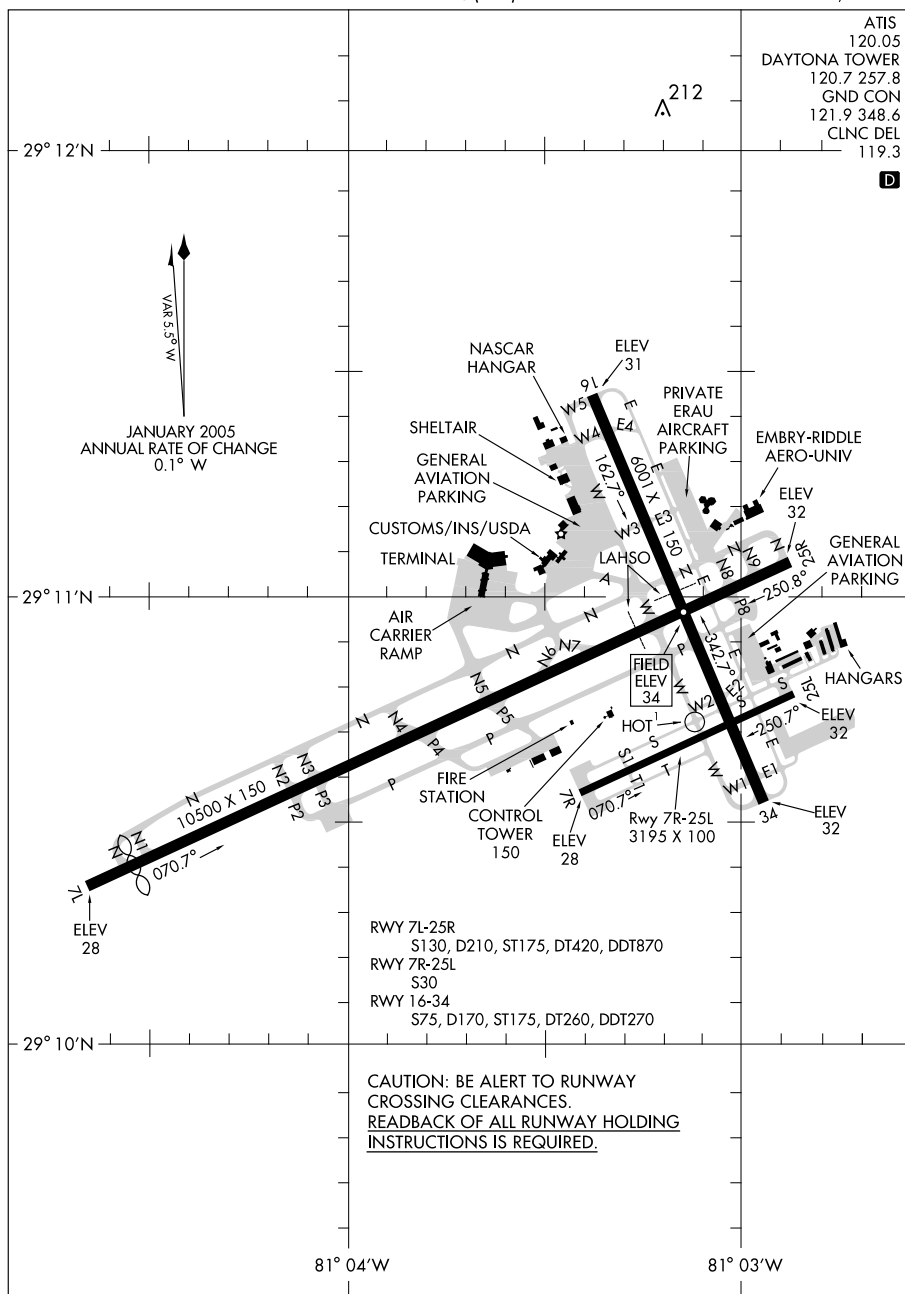
08325

COVINGTON, KENTUCKY  
COVINGTON/ CINCINNATI/ NORTHERN KENTUCKY INTL (CVG)

09127

## AIRPORT DIAGRAM

AL-110 (FAA)

DAYTONA BEACH INTL (DAB)  
DAYTONA BEACH, FLORIDA

## AIRPORT DIAGRAM

09127

DAYTONA BEACH, FLORIDA  
DAYTONA BEACH INTL (DAB)

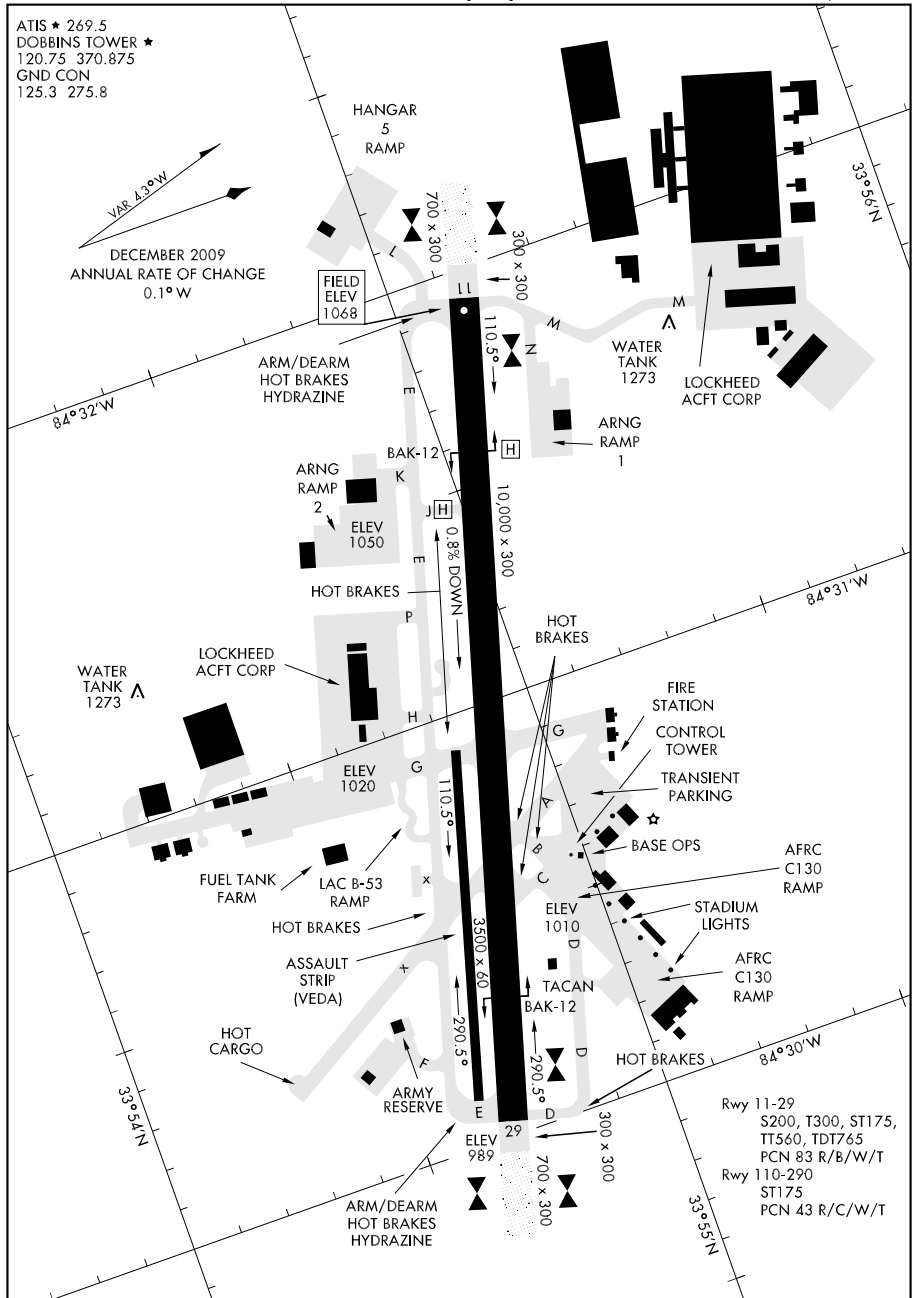
09351

## AIRPORT DIAGRAM

AFD-959 [USAF]

DOBBINS ARB (KMGE)

MARIETTA, GEORGIA



## AIRPORT DIAGRAM

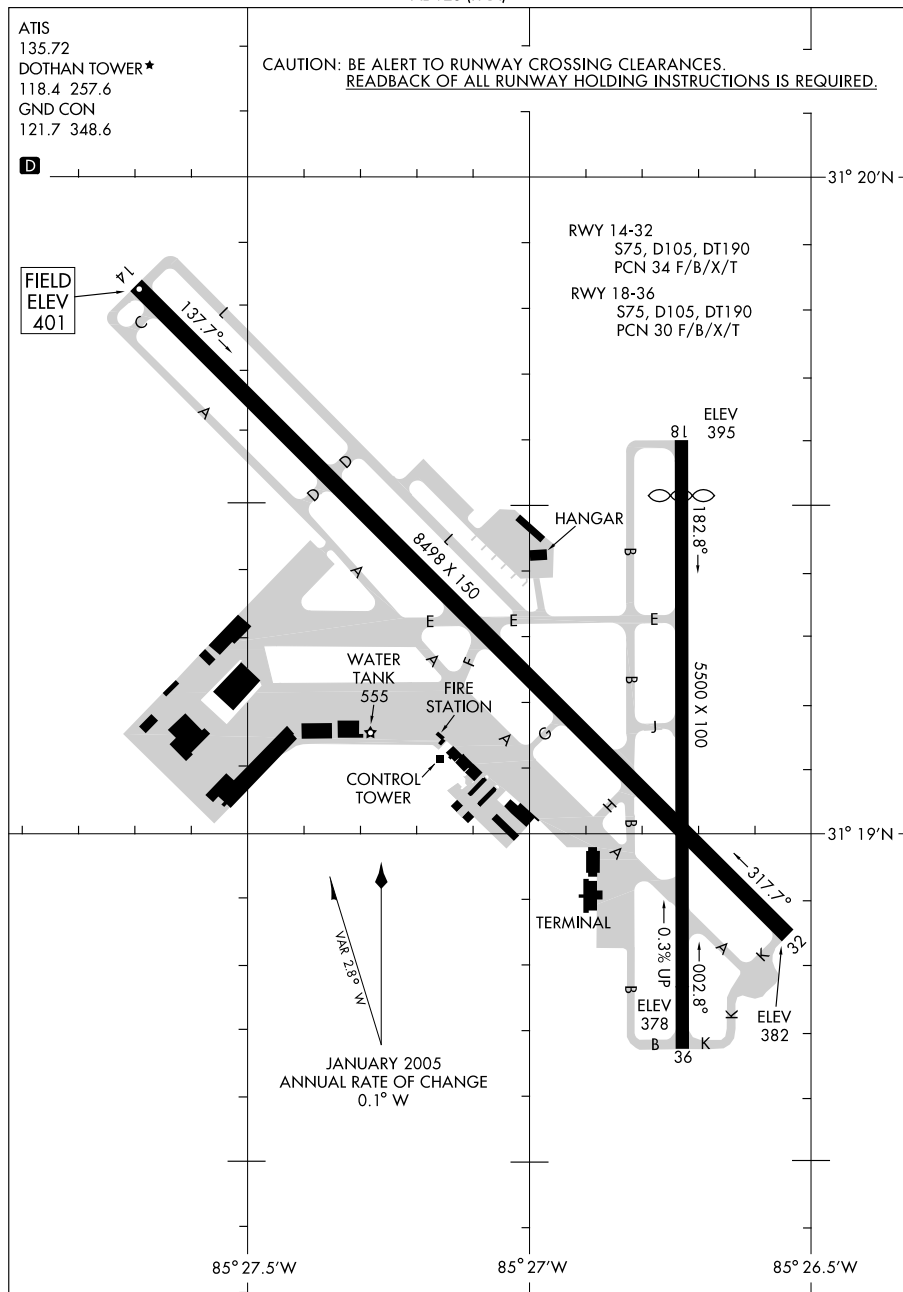
MARIETTA, GEORGIA

DOBBINS ARB (KMGE)

09295

## AIRPORT DIAGRAM

AL-123 (FAA)

DOTHAN RGNL (DHN)  
DOTHAN, ALABAMA

## AIRPORT DIAGRAM

09295

DOTHAN, ALABAMA  
DOTHAN RGNL (DHN)

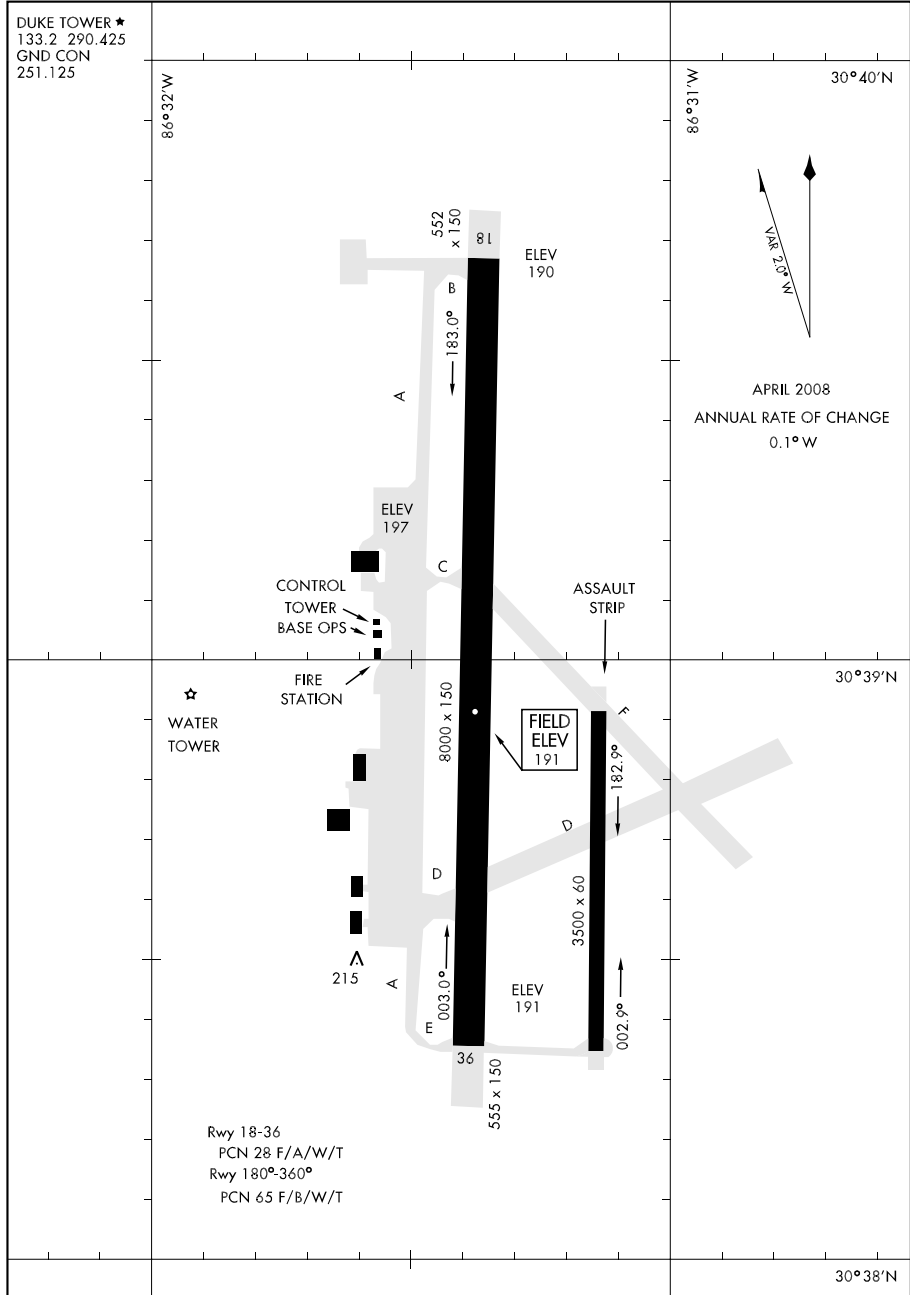
08101

DUKE FLD (EGLIN AF AUX NR3) (KEGI)

# AIRPORT DIAGRAM

AFD-699 [USAF]

VALPARAISO, FLORIDA



# AIRPORT DIAGRAM

VALPARAISO, FLORIDA

DUKE FLD (EGLIN AF AUX NR3) (KEGI)

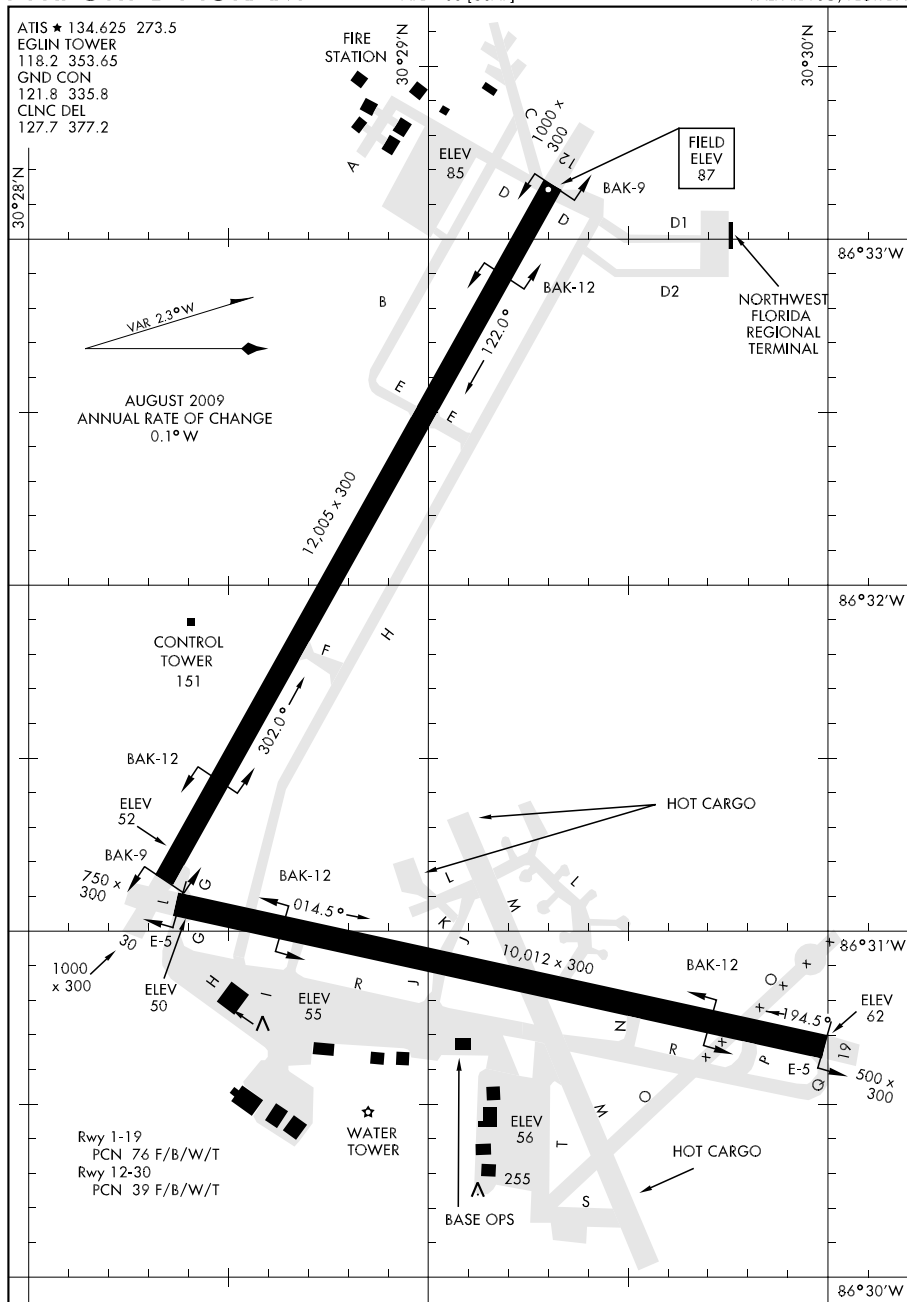
09239

## AIRPORT DIAGRAM

AFD-436 [USAF]

EGLIN AFB (KVPS)

VALPARAISO, FLORIDA



## AIRPORT DIAGRAM

VALPARAISO, FLORIDA

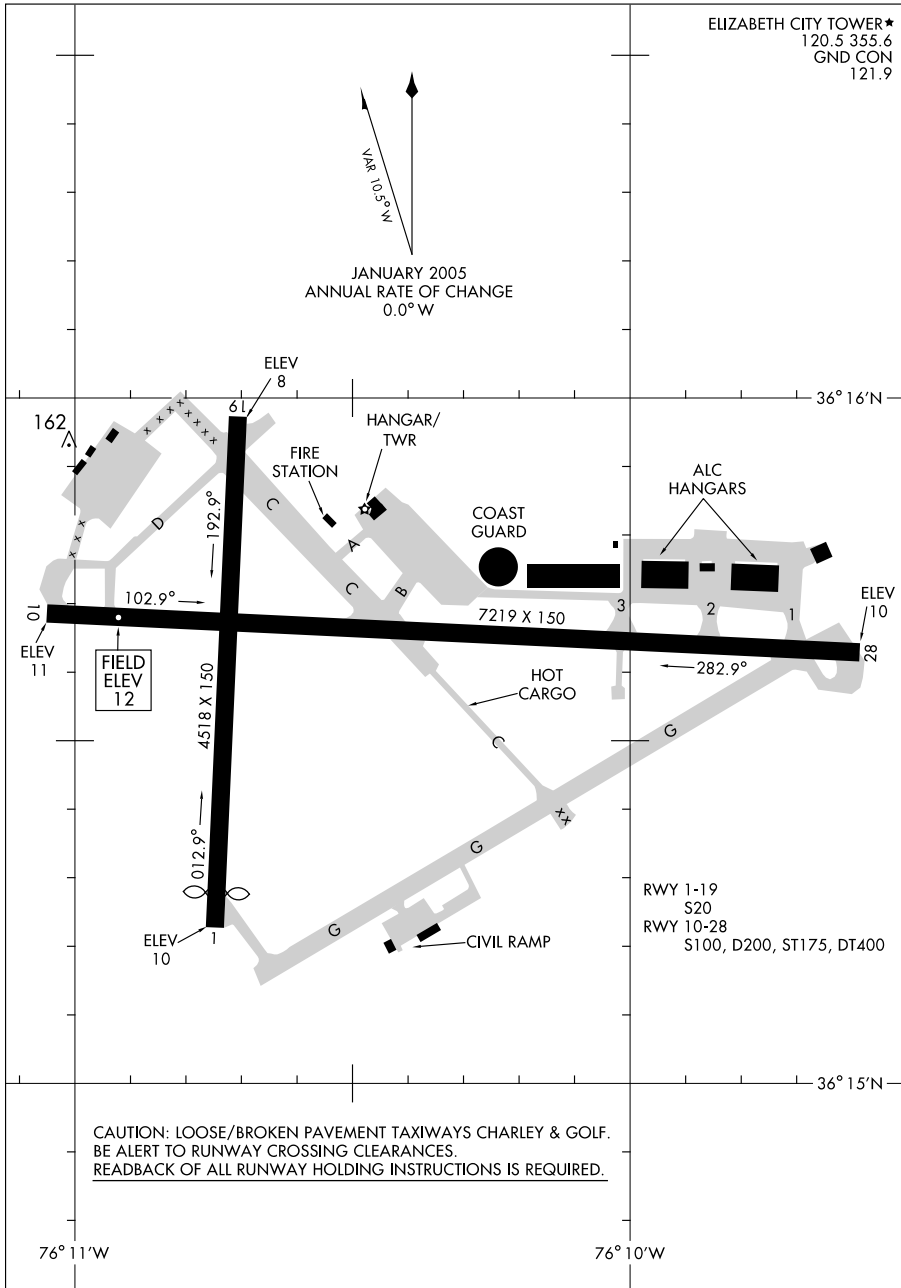
EGLIN AFB (KVPS)



09295

## AIRPORT DIAGRAM

ELIZABETH CITY COAST GUARD AIR STATION/RGNL (E/CG)  
AL-617 (FAA) ELIZABETH CITY, NORTH CAROLINA



## AIRPORT DIAGRAM

09295

ELIZABETH CITY, NORTH CAROLINA  
ELIZABETH CITY COAST GUARD AIR STATION/RGNL (E/CG)

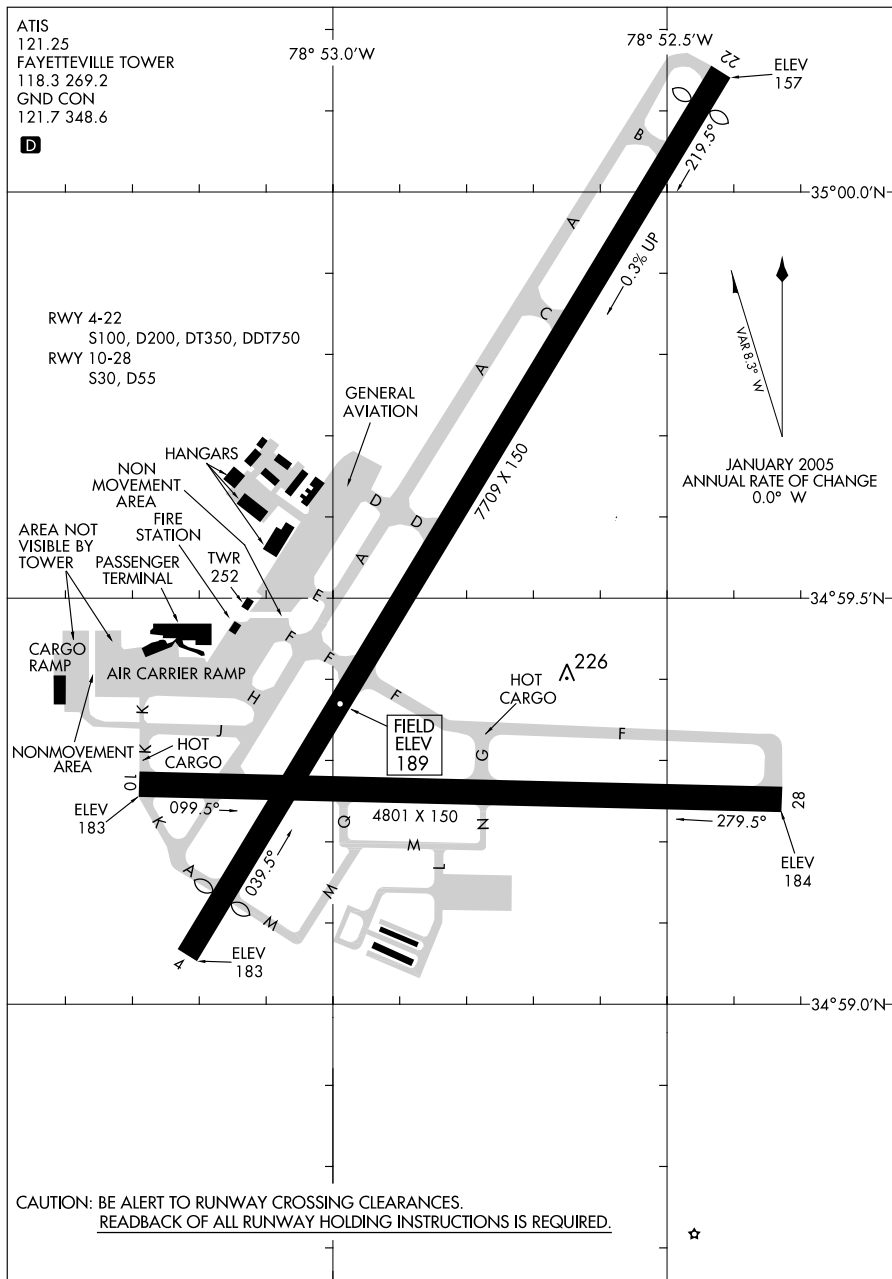
09239

FAYETTEVILLE RGNL/GRANNIS FIELD (FAY)

## AIRPORT DIAGRAM

AL-690 (FAA)

FAYETTEVILLE, NORTH CAROLINA



## AIRPORT DIAGRAM

09239

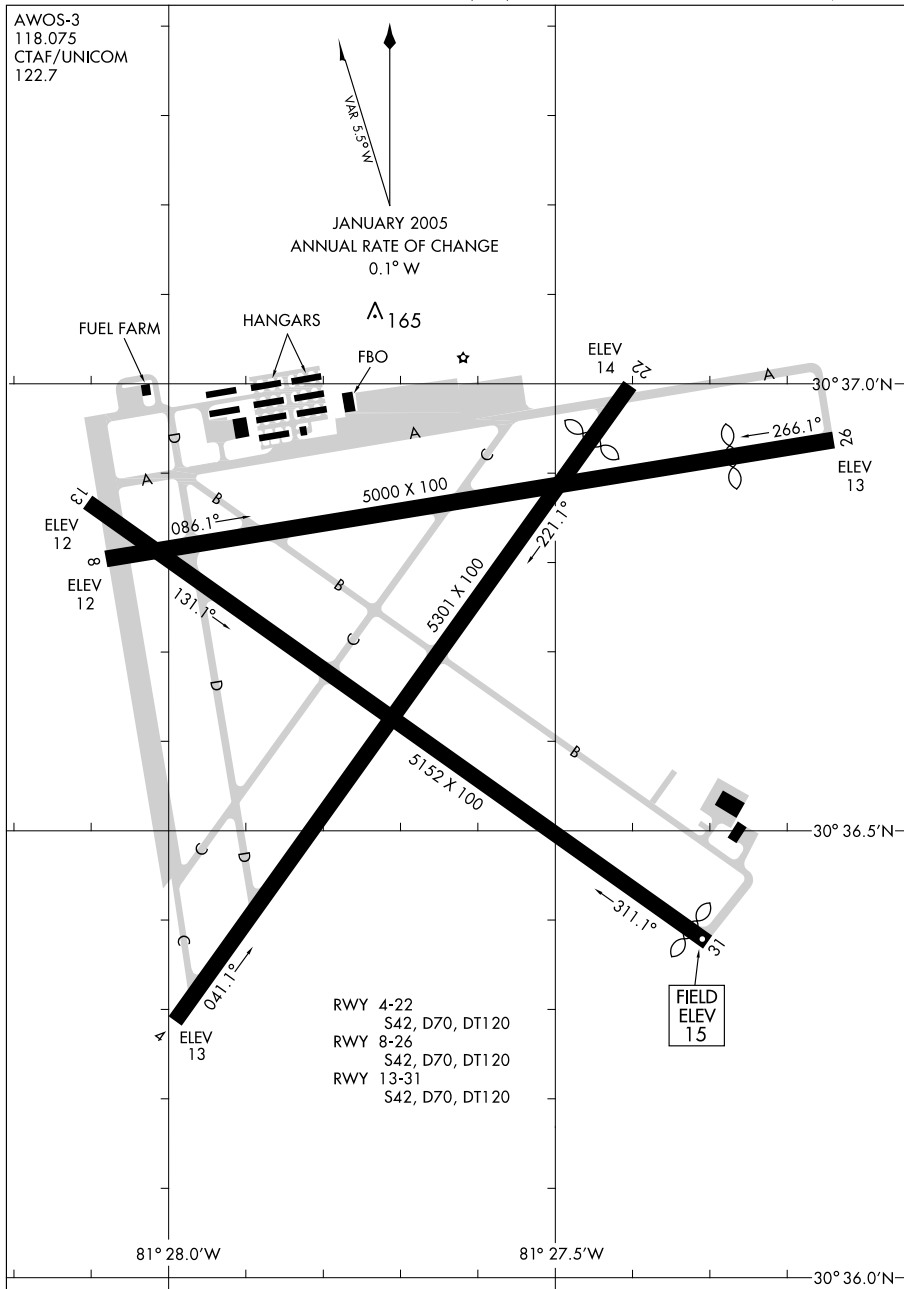
FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE RGNL/GRANNIS FIELD (FAY)

10098

# AIRPORT DIAGRAM

FERNANDINA BEACH MUNI (FHB)  
FERNANDINA BEACH, FLORIDA



# AIRPORT DIAGRAM

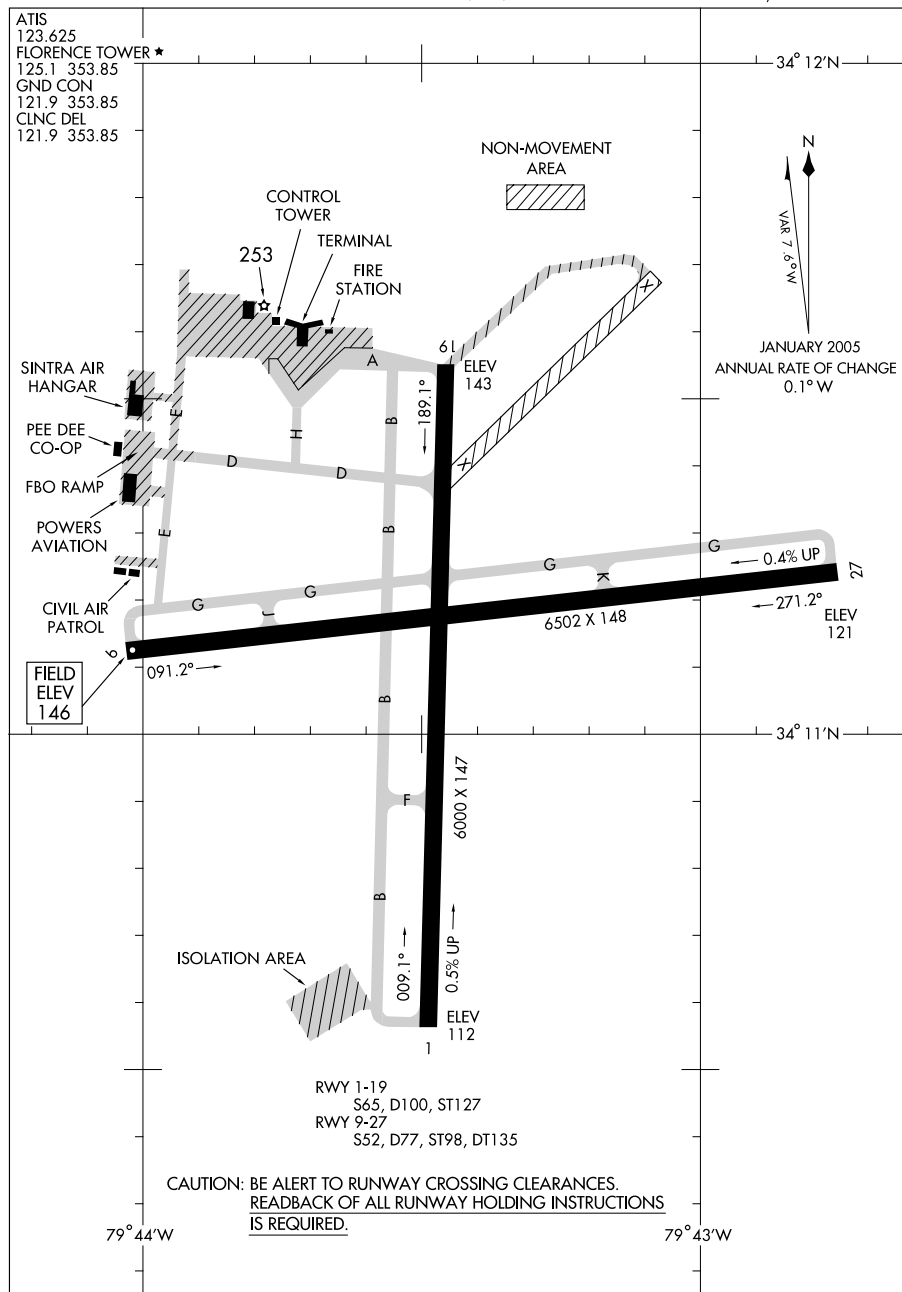
10098

FERNANDINA BEACH, FLORIDA  
FERNANDINA BEACH MUNI (FHB)

09015

## AIRPORT DIAGRAM

AL-145 (FAA)

FLORENCE RGNL (F'LO)  
FLORENCE, SOUTH CAROLINA

## AIRPORT DIAGRAM

09015

FLORENCE, SOUTH CAROLINA  
FLORENCE RGNL (F'LO)

FORT LAUDERDALE EXECUTIVE (F'XE)  
FORT LAUDERDALE, FLORIDA





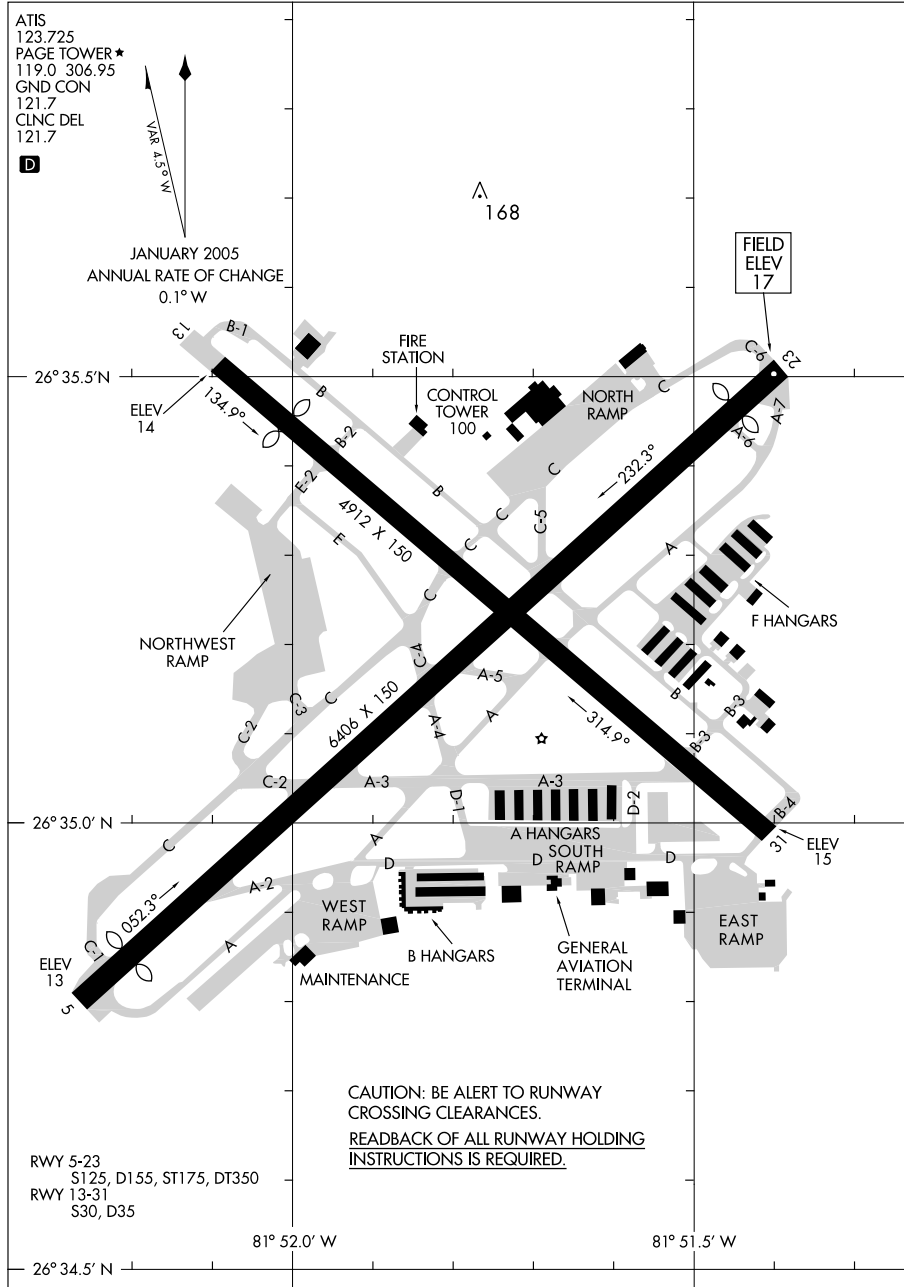
09239

## AIRPORT DIAGRAM

AL-154 (FAA)

FORT MYERS/PAGE FIELD (FMY)

FORT MYERS, FLORIDA



## AIRPORT DIAGRAM

09239

FORT MYERS, FLORIDA  
FORT MYERS/PAGE FIELD (FMY)

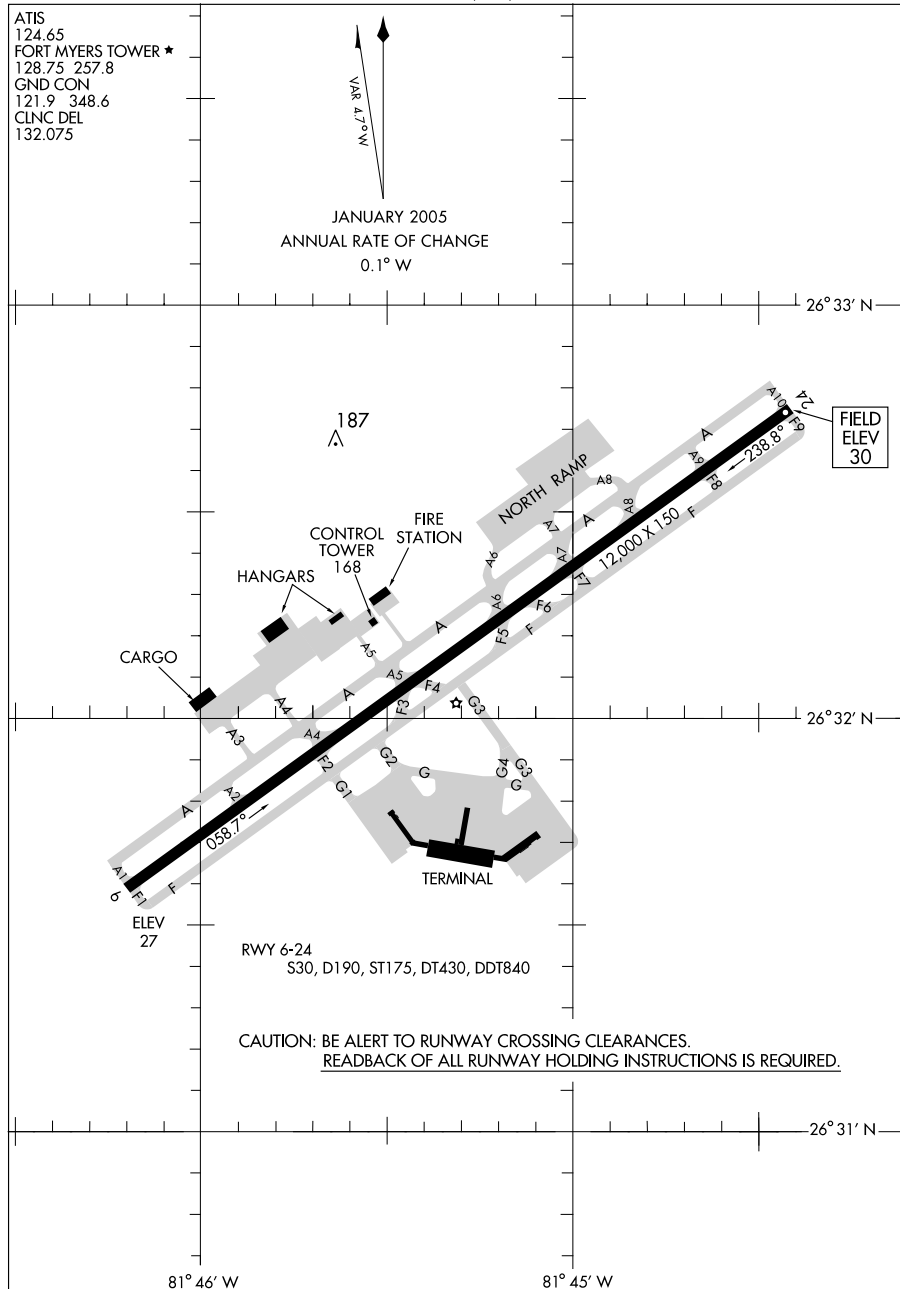
09183

## AIRPORT DIAGRAM

FORT MYERS/SOUTHWEST FLORIDA INTL (R.S.W)

AL-6757 (FAA)

FORT MYERS, FLORIDA



## AIRPORT DIAGRAM

09183

 FORT MYERS, FLORIDA  
 FORT MYERS/SOUTHWEST FLORIDA INTL (R.S.W)



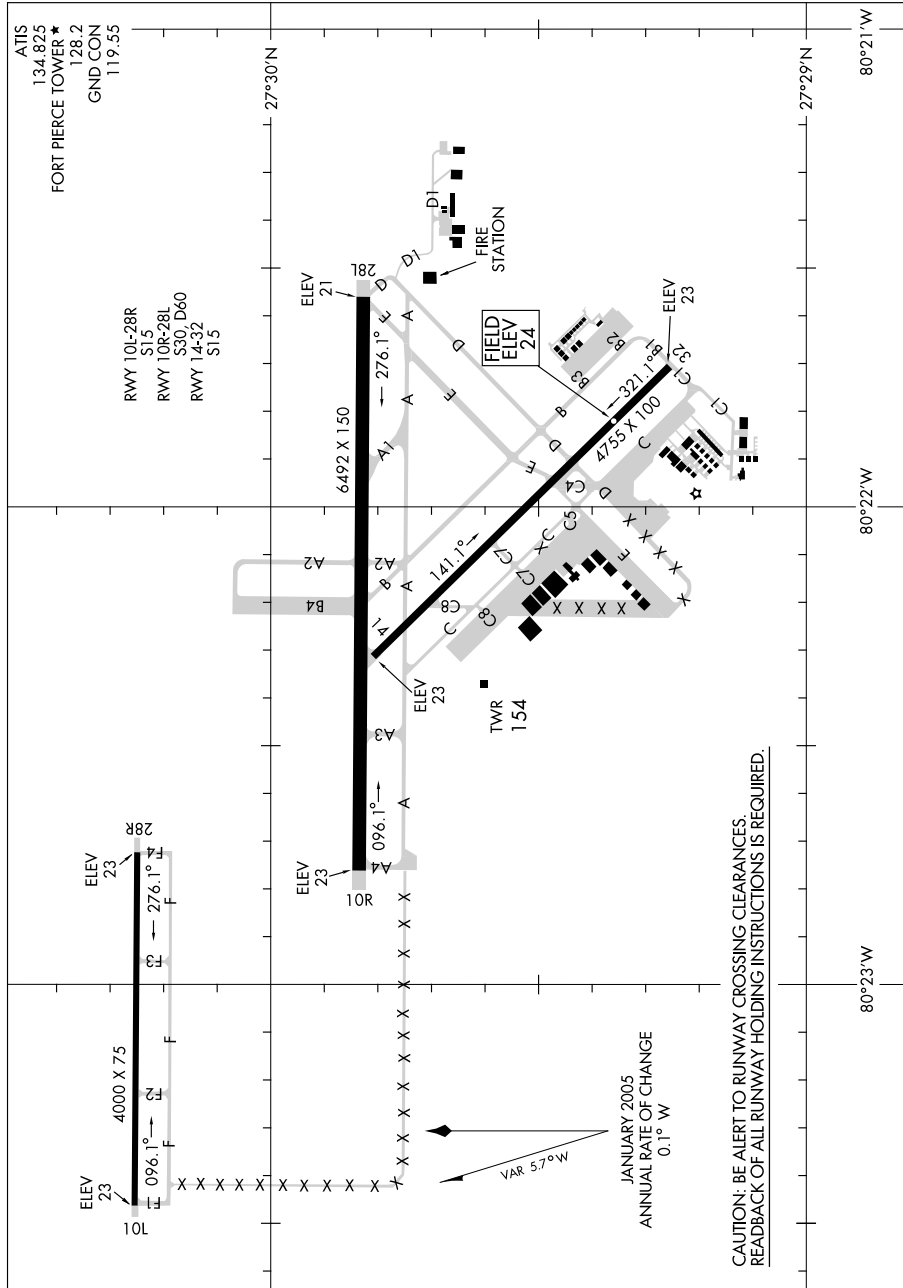
10042

## AIRPORT DIAGRAM

FORT PIERCE/ST. LUCIE COUNTY INTL (FPR)

AL-5343 (FAA)

FORT PIERCE, FLORIDA

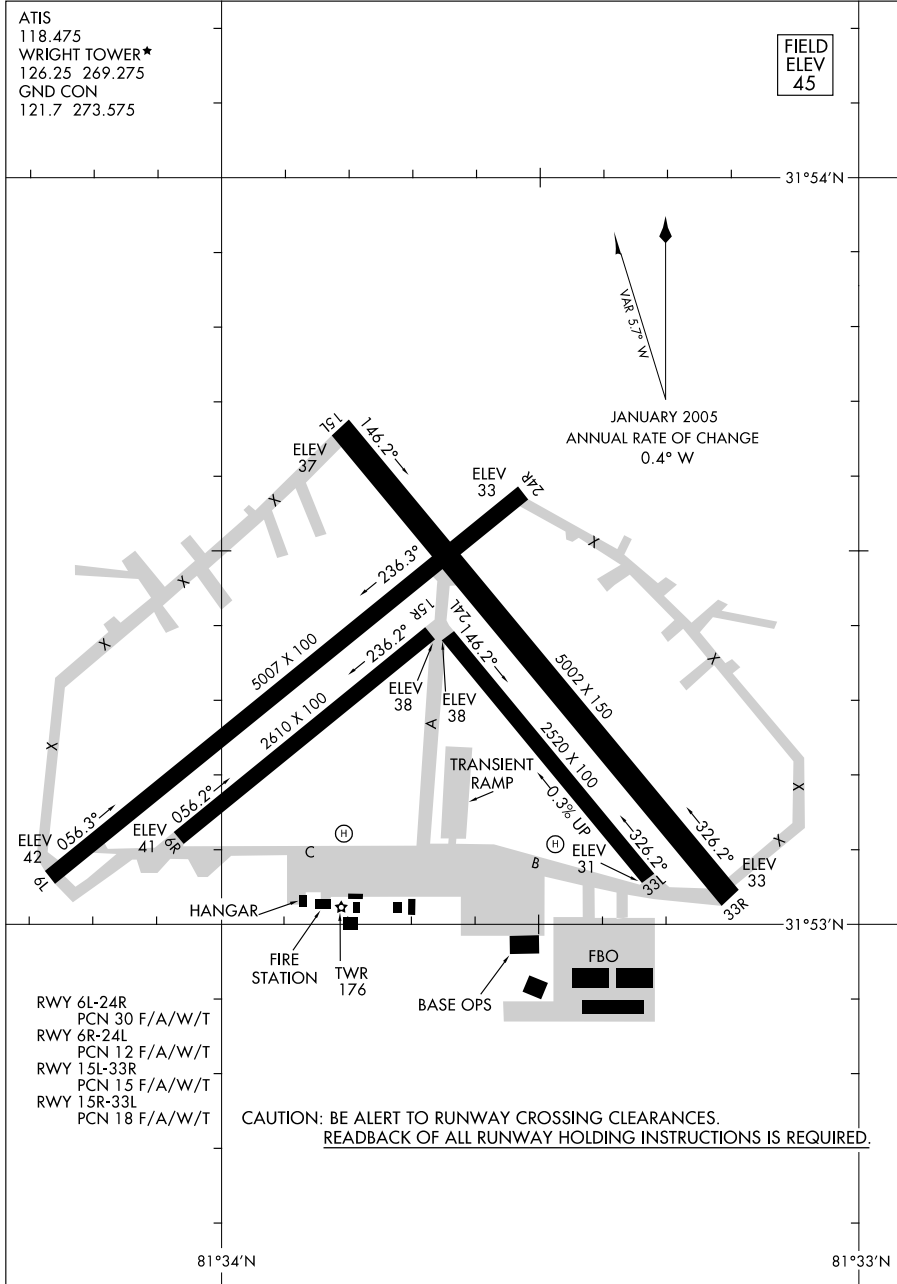


## AIRPORT DIAGRAM

10042

FORT PIERCE, FLORIDA  
FORT PIERCE/ST. LUCIE COUNTY INTL (FPR)

10098 FORT STEWART(HINESVILLE)/ WRIGHT AAF(FORT STEWART)/MIDCOAST RGNL(LHW)  
**AIRPORT DIAGRAM** AL-5170 (FAA) FORT STEWART(HINESVILLE), GEORGIA



**AIRPORT DIAGRAM**

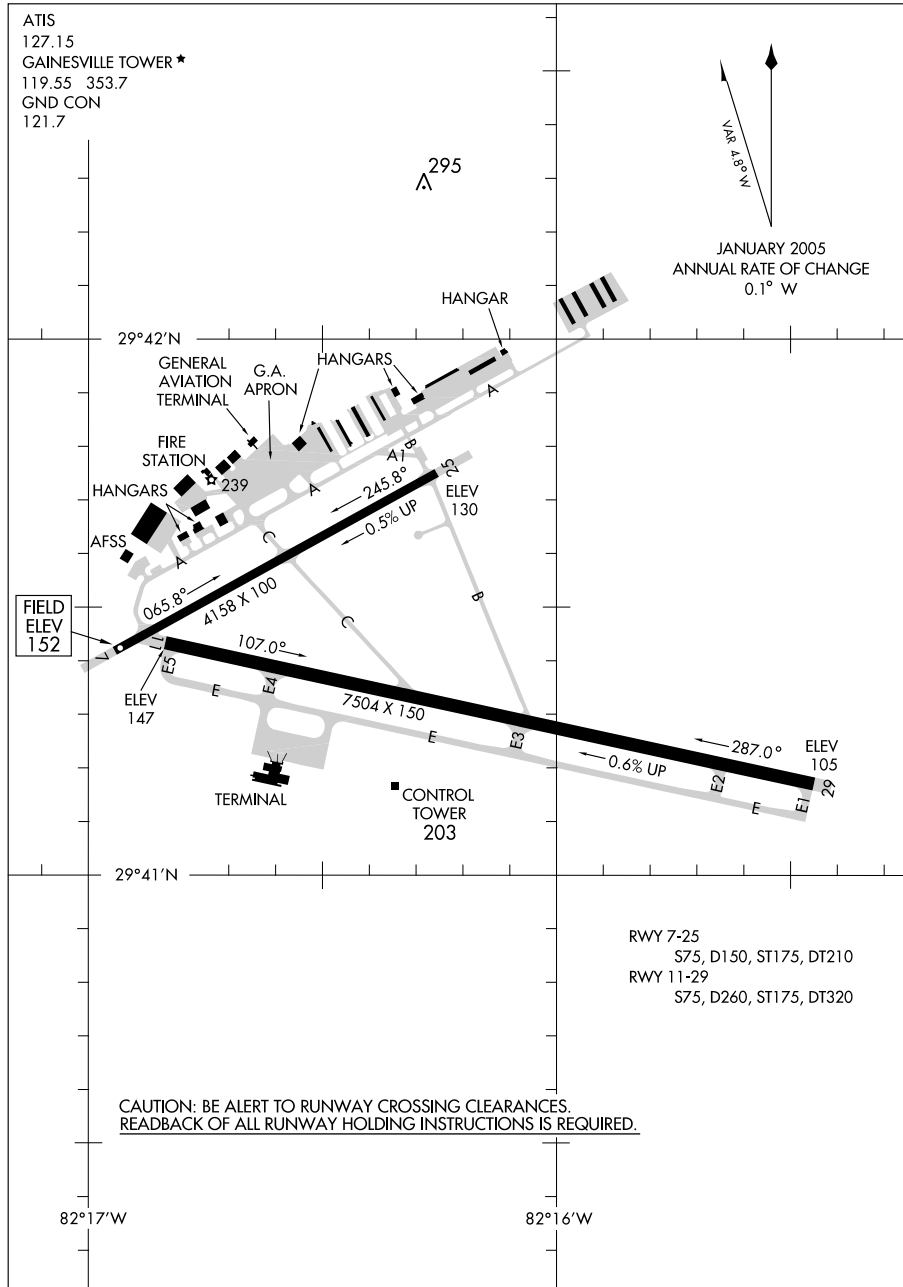
FORT STEWART(HINESVILLE), GEORGIA

10098 FORT STEWART(HINESVILLE)/ WRIGHT AAF(FORT STEWART)/MIDCOAST RGNL(LHW)

10042

## AIRPORT DIAGRAM

AL-973 (FAA)

GAINESVILLE RGNL (GNTV)  
GAINESVILLE, FLORIDA

## AIRPORT DIAGRAM

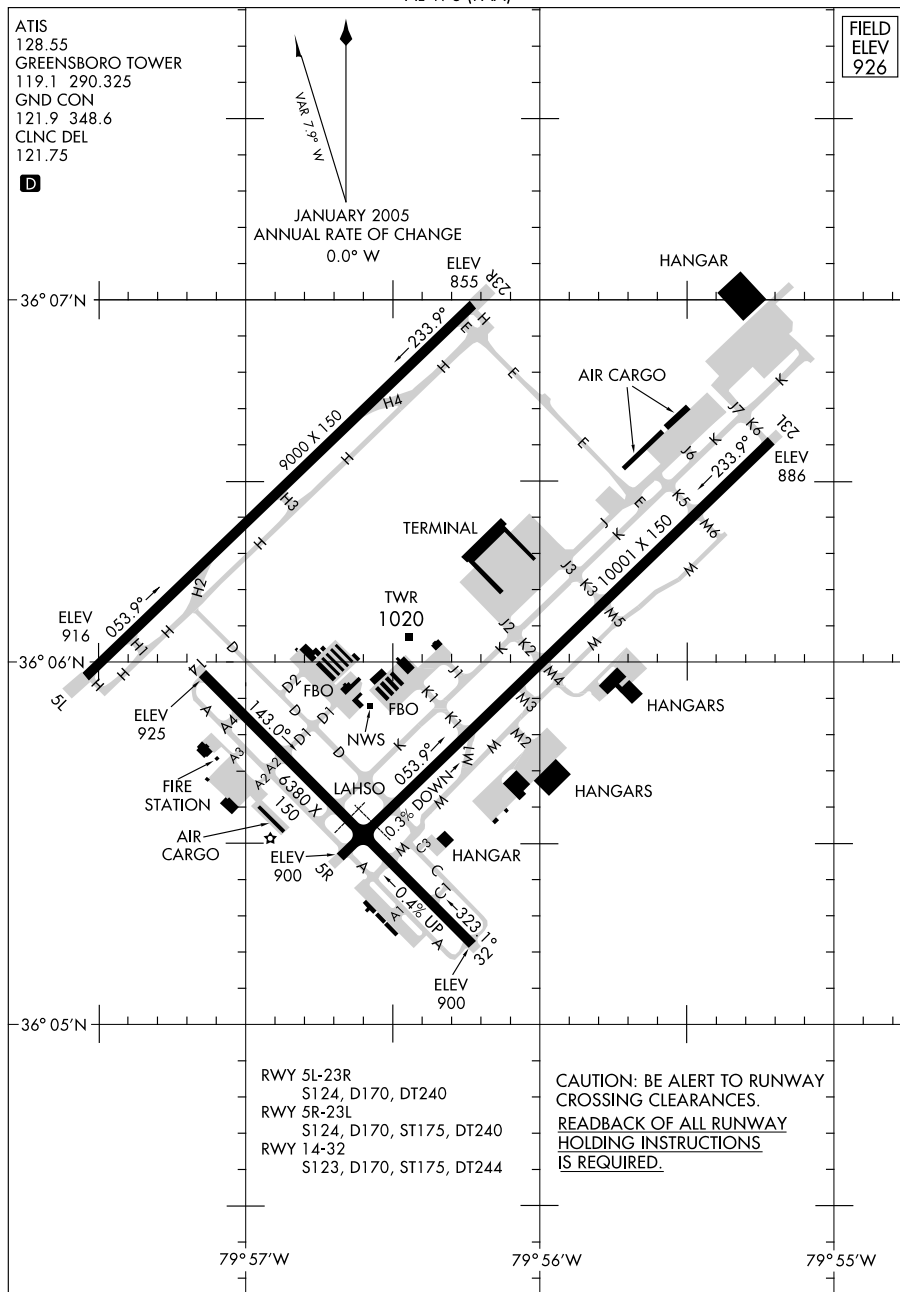
10042

GAINESVILLE, FLORIDA  
GAINESVILLE RGNL (GNTV)

10042

## AIRPORT DIAGRAM

GREENSBORO/PIEDMONT TRIAD INTL (GSO)  
GREENSBORO, NORTH CAROLINA



## AIRPORT DIAGRAM

10042

GREENSBORO, NORTH CAROLINA  
GREENSBORO/PIEDMONT TRIAD INTL (GSO)

GREENVILLE/PITT-GREENVILLE (PGV)  
GREENVILLE, NORTH CAROLINA



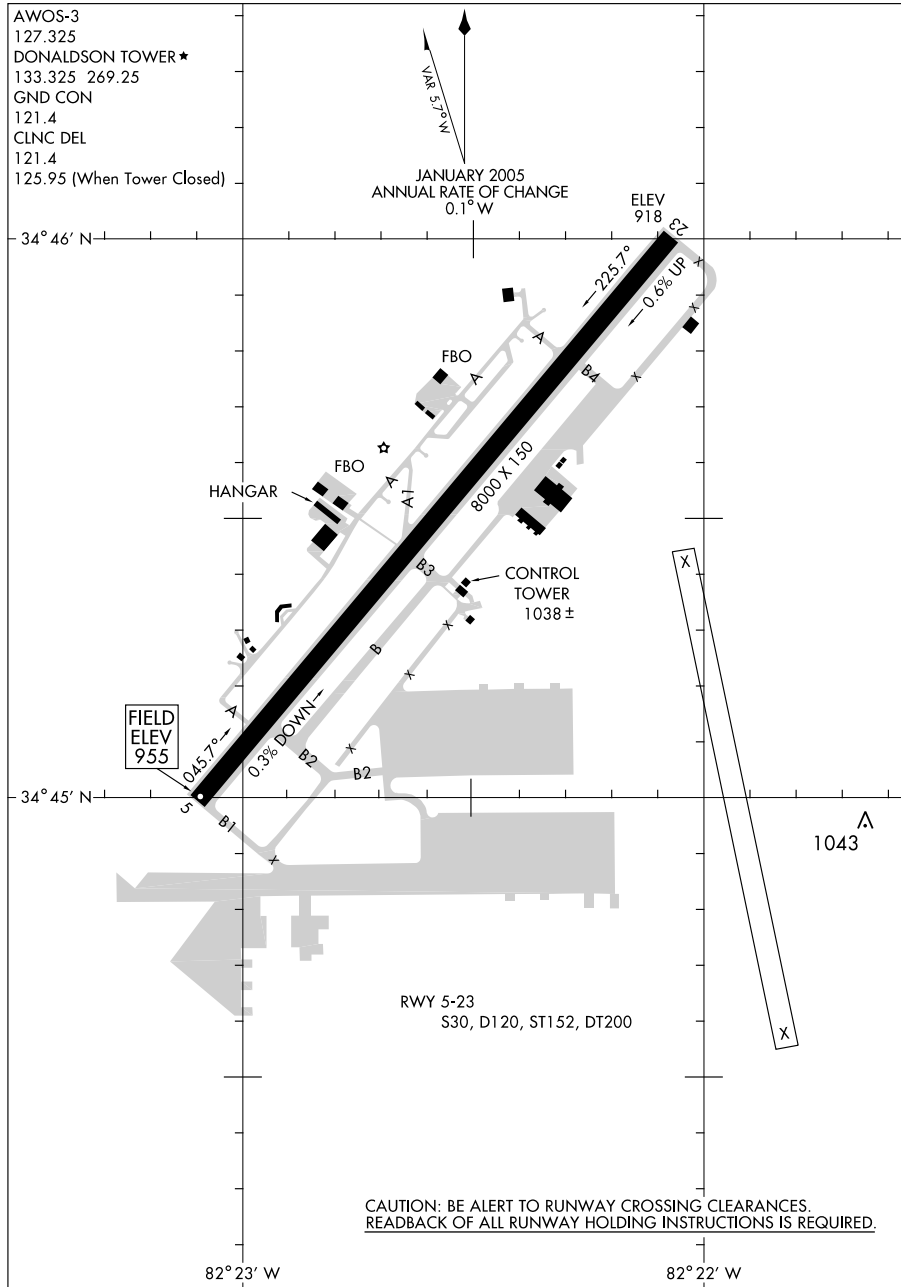
SE, 08 APR 2010 to 03 JUN 2010

09071

## AIRPORT DIAGRAM

GREENVILLE/ DONALDSON CENTER (G'Y'H)

GREENVILLE, SOUTH CAROLINA



## AIRPORT DIAGRAM

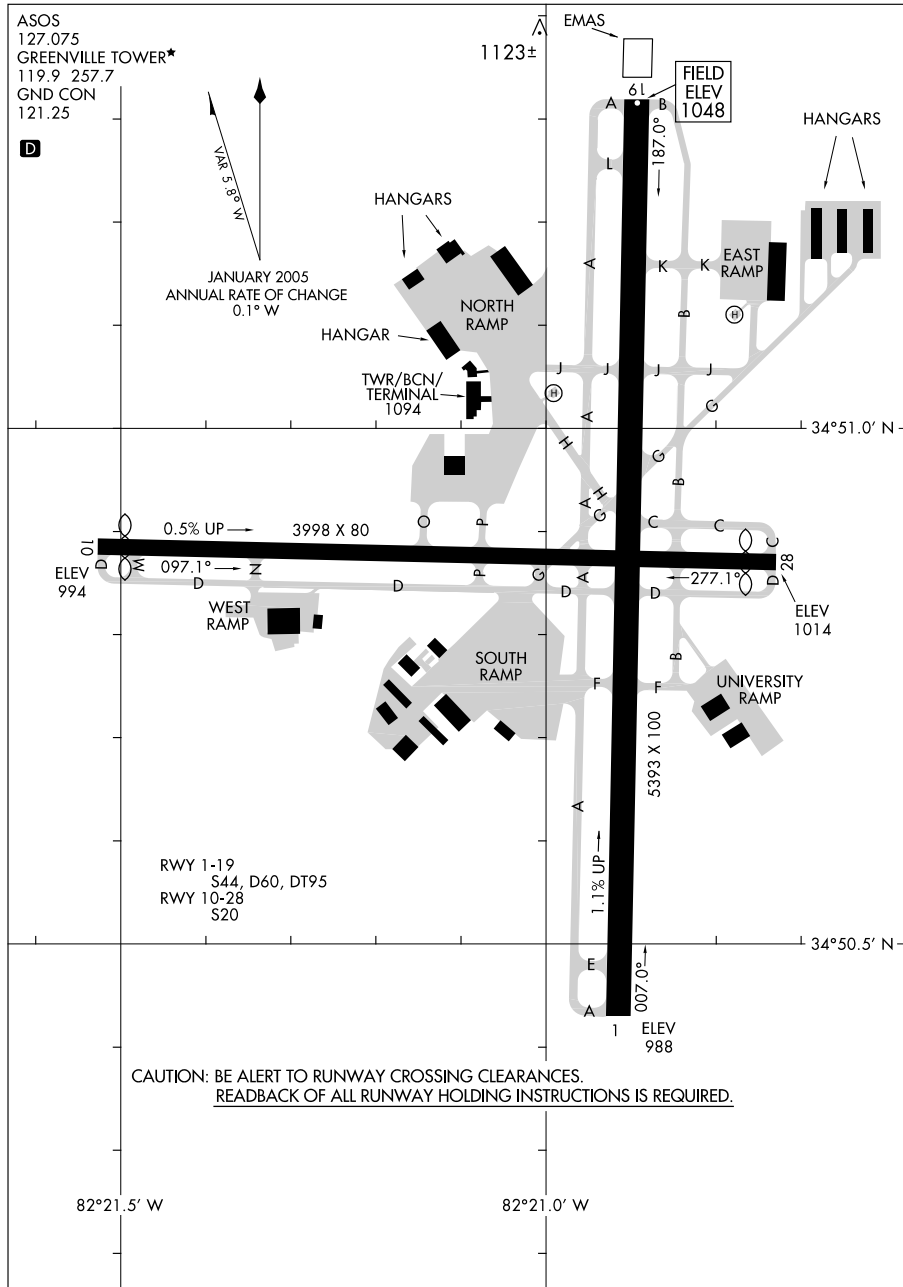
09071

GREENVILLE, SOUTH CAROLINA  
GREENVILLE/ DONALDSON CENTER (G'Y'H)

10042

## AIRPORT DIAGRAM

AL-180 (FAA)

GREENVILLE DOWNTOWN (GMU)  
GREENVILLE, SOUTH CAROLINA

## AIRPORT DIAGRAM

10042

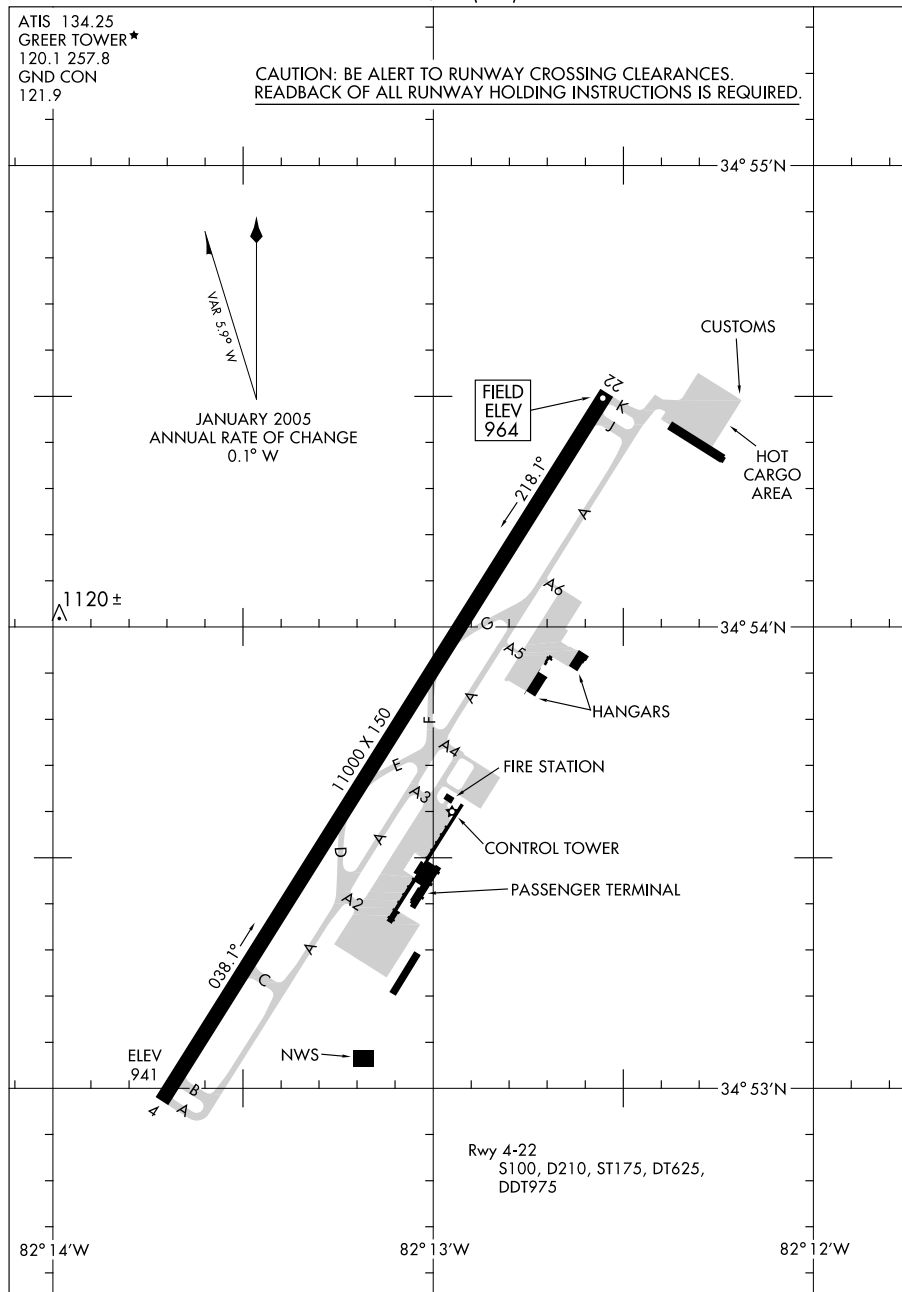
GREENVILLE, SOUTH CAROLINA  
GREENVILLE DOWNTOWN (GMU)

07298

## AIRPORT DIAGRAM

GREER/ GREENVILLE-SPARTANBURG INTL-ROGER MILLIKEN (GSP)  
AL-5124 (FAA)

GREER, SOUTH CAROLINA



## AIRPORT DIAGRAM

GREER, SOUTH CAROLINA  
GREER/ GREENVILLE-SPARTANBURG INTL-ROGER MILLIKEN (GSP)

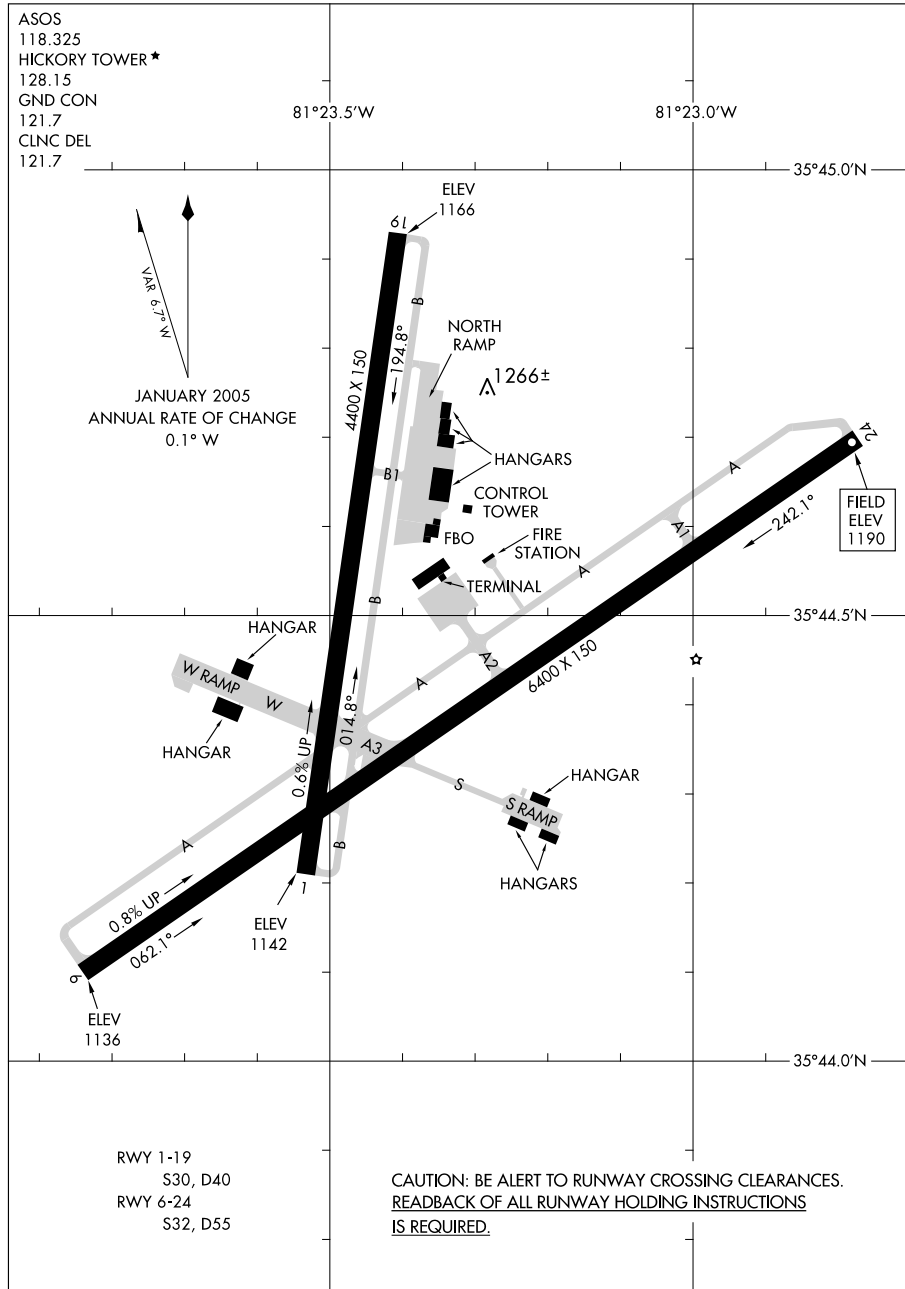
07298



09239

## AIRPORT DIAGRAM

AL-706 (FAA)

HICKORY RGNL (HKY)  
HICKORY, NORTH CAROLINA

## AIRPORT DIAGRAM

09239

HICKORY, NORTH CAROLINA  
HICKORY RGNL (HKY)

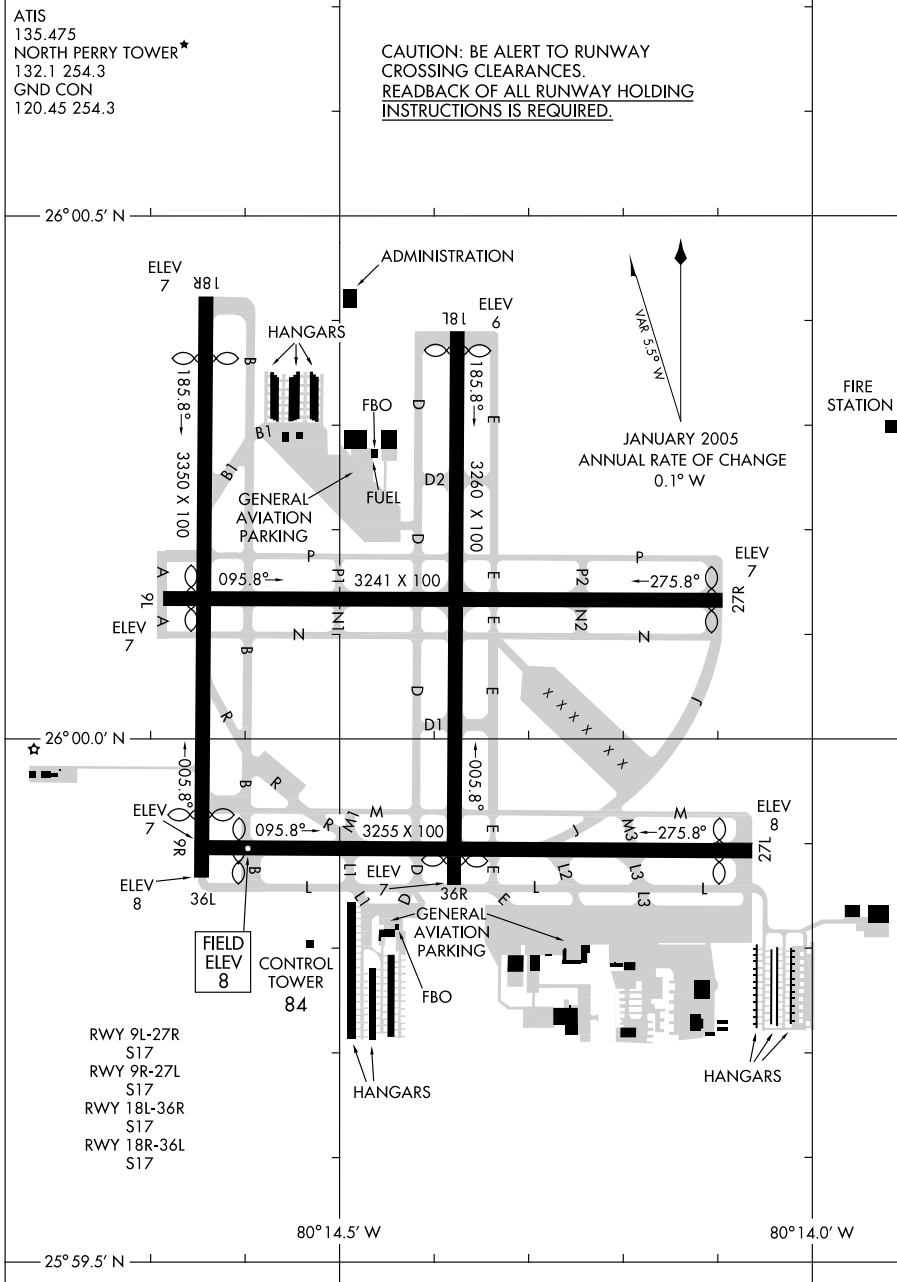
09239

## AIRPORT DIAGRAM

AL-5606 (FAA)

HOLLYWOOD /NORTH PERRY (HWO)

HOLLYWOOD, FLORIDA



## AIRPORT DIAGRAM

09239

HOLLYWOOD, FLORIDA  
HOLLYWOOD /NORTH PERRY (HWO)

08241

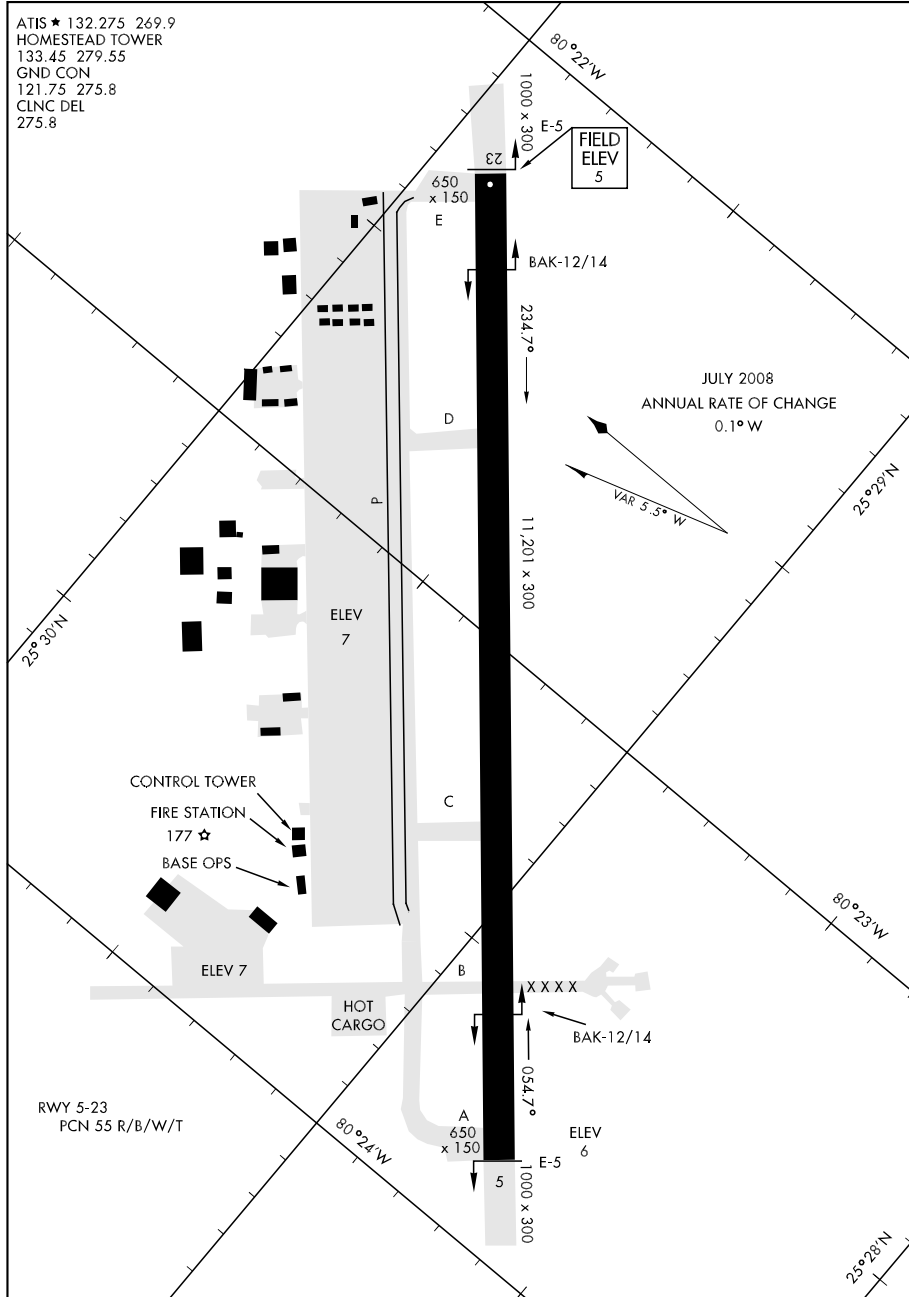
## AIRPORT DIAGRAM

AFD-494 [USAF]

HOMESTEAD ARB (KHST)

HOMESTEAD, FLORIDA

ATIS ★ 132.275 269.9  
 HOMESTEAD TOWER  
 133.45 279.55  
 GND CON  
 121.75 275.8  
 CLNC DEL  
 275.8



## AIRPORT DIAGRAM

HOMESTEAD, FLORIDA

HOMESTEAD ARB (KHST)

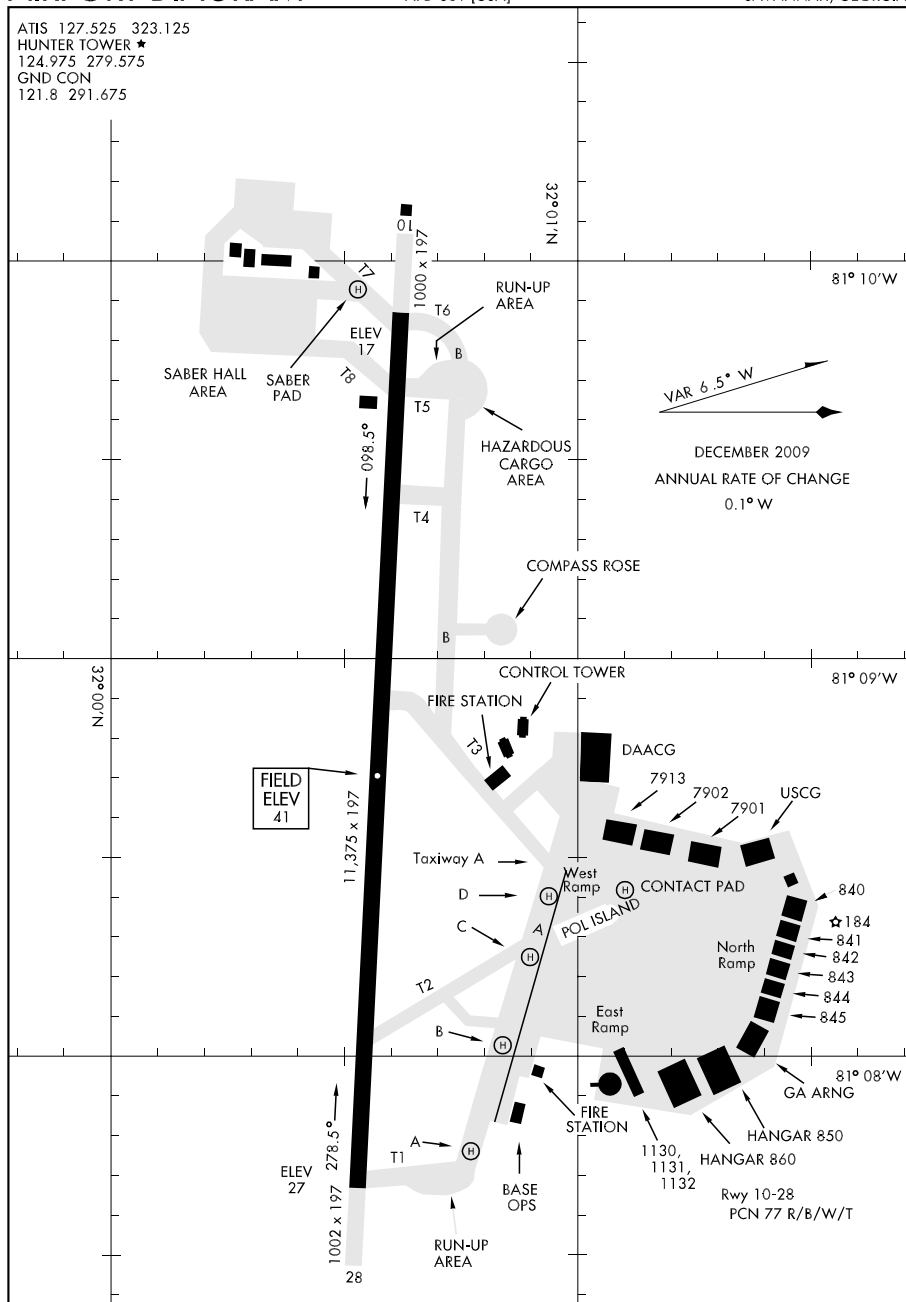
09351

## AIRPORT DIAGRAM

AFD-381 [USA]

HUNTER AAF (KSVN)

SAVANNAH, GEORGIA



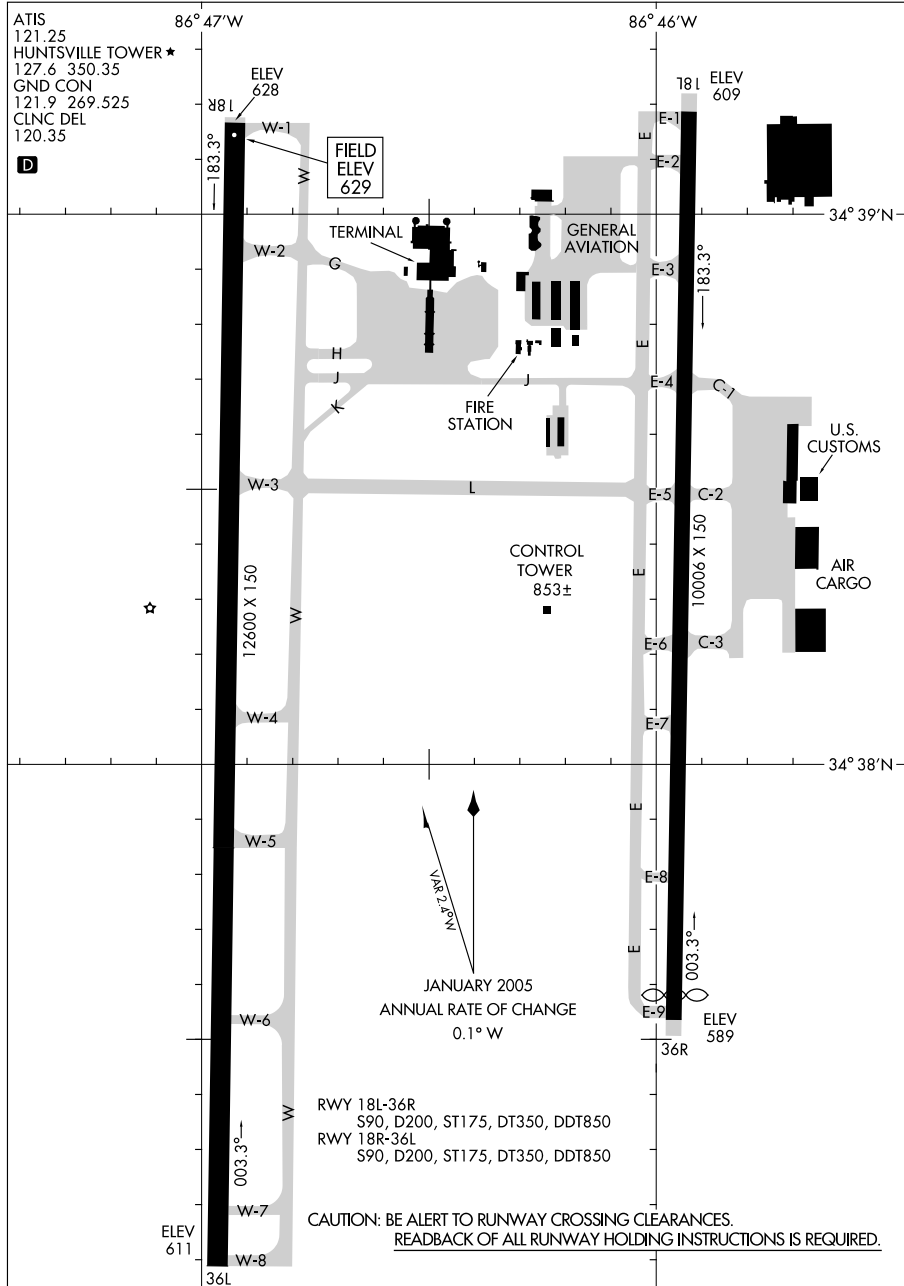
## AIRPORT DIAGRAM

SAVANNAH, GEORGIA  
HUNTER AAF (KSVN)

09351

# AIRPORT DIAGRAM

HUNTSVILLE INTL-CARL T. JONES FIELD (HSV)  
AL-5488 (FAA)  
HUNTSVILLE, ALABAMA



# AIRPORT DIAGRAM

09351

HUNTSVILLE, ALABAMA  
HUNTSVILLE INTL-CARL T. JONES FIELD (HSV)

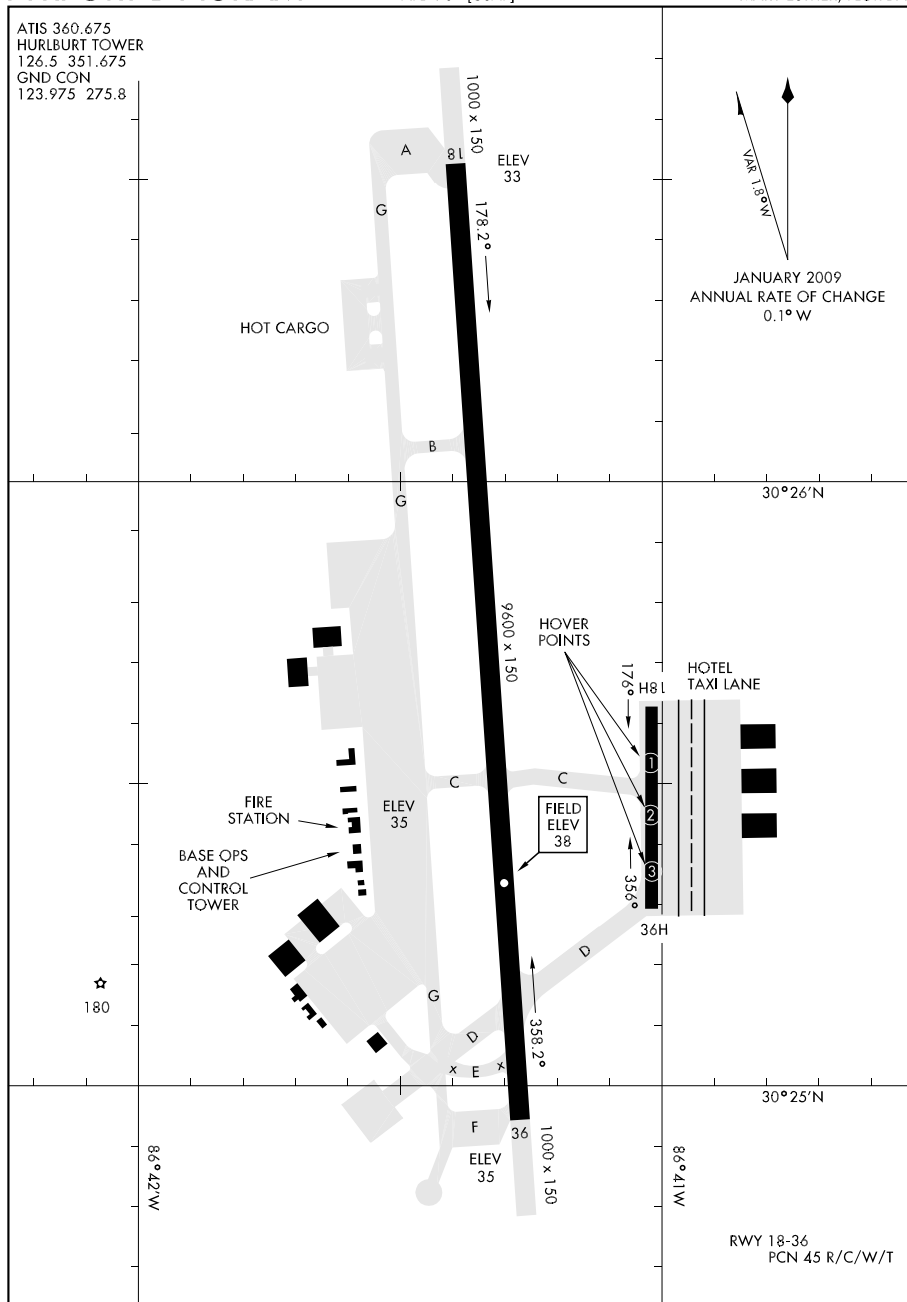
09015

## AIRPORT DIAGRAM

AFD-734 [USAF]

HURLBURT FLD (KHRT)

MARY ESTHER, FLORIDA



## AIRPORT DIAGRAM

 MARY ESTHER, FLORIDA  
 HURLBURT FLD (KHRT)

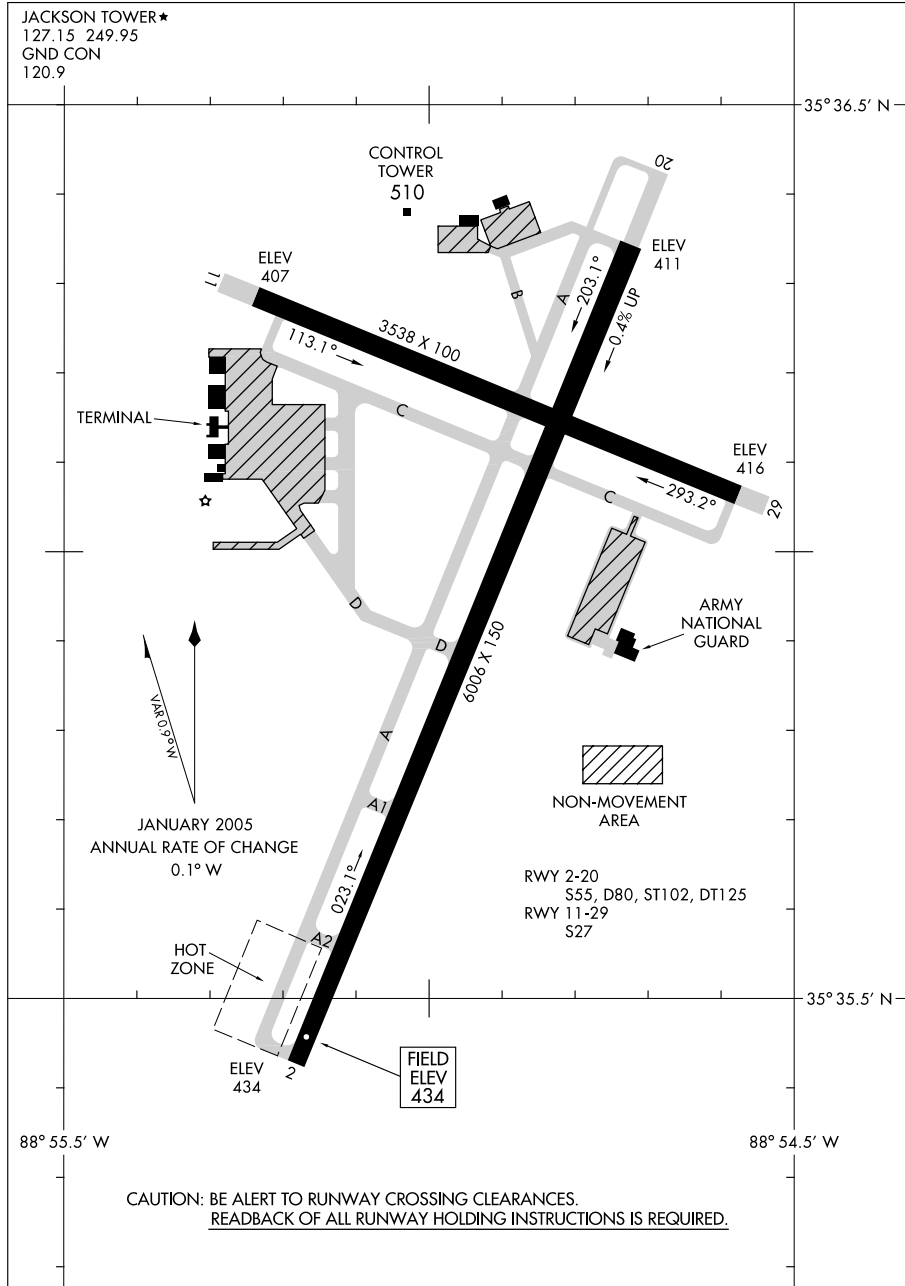
08325

# AIRPORT DIAGRAM

JACKSON/McKELLAR-SIPES RGNL (MKL)

JACKSON, TENNESSEE

AL-5062 (FAA)



## AIRPORT DIAGRAM

08325

JACKSON, TENNESSEE

JACKSON/McKELLAR-SIPES RGNL (MKL)

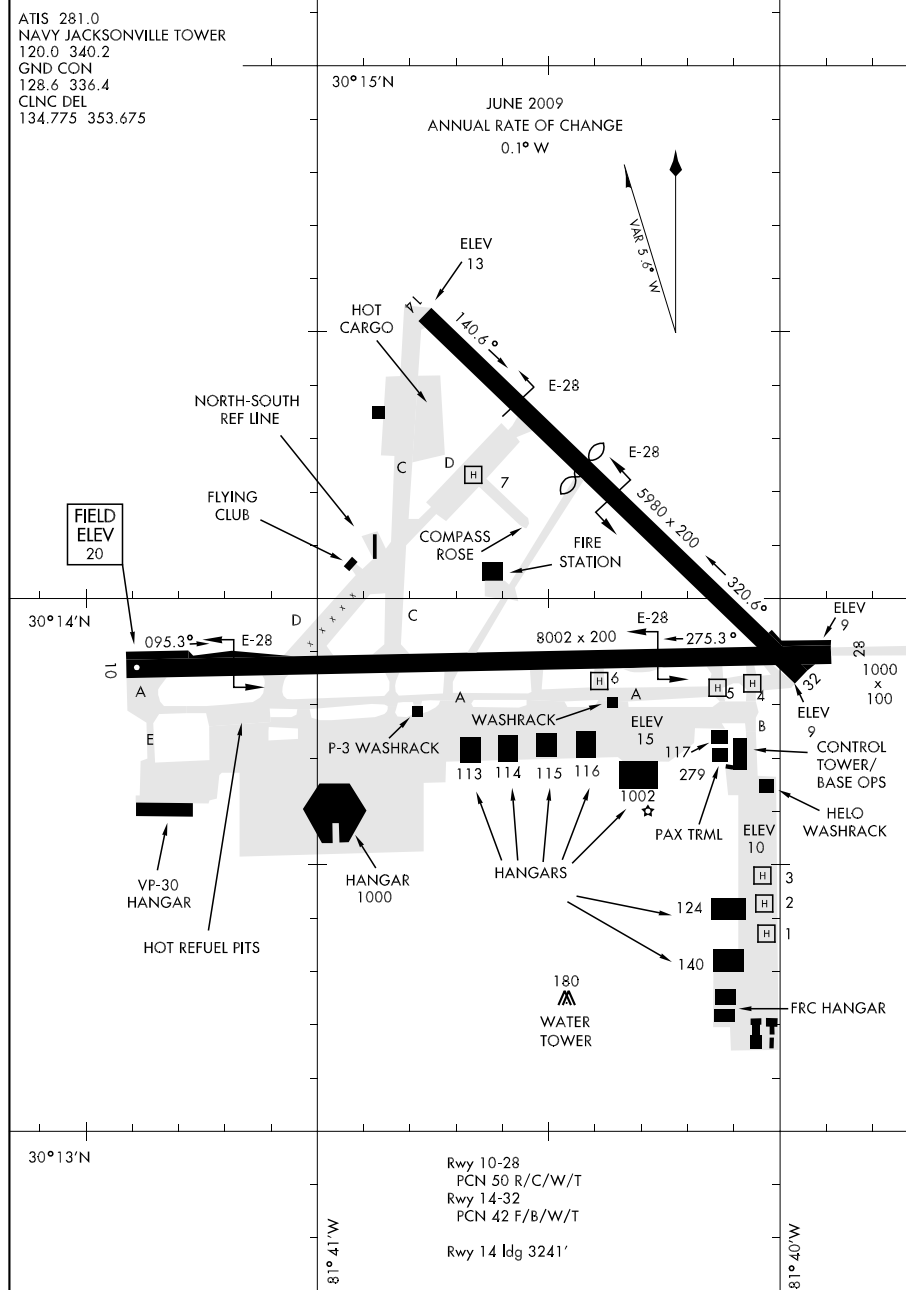
09155

## AIRPORT DIAGRAM

AFD-209 [USN]

JACKSONVILLE NAS (KNIP)

JACKSONVILLE, FLORIDA



## AIRPORT DIAGRAM

JACKSONVILLE, FLORIDA  
JACKSONVILLE NAS (KNIP)



08157

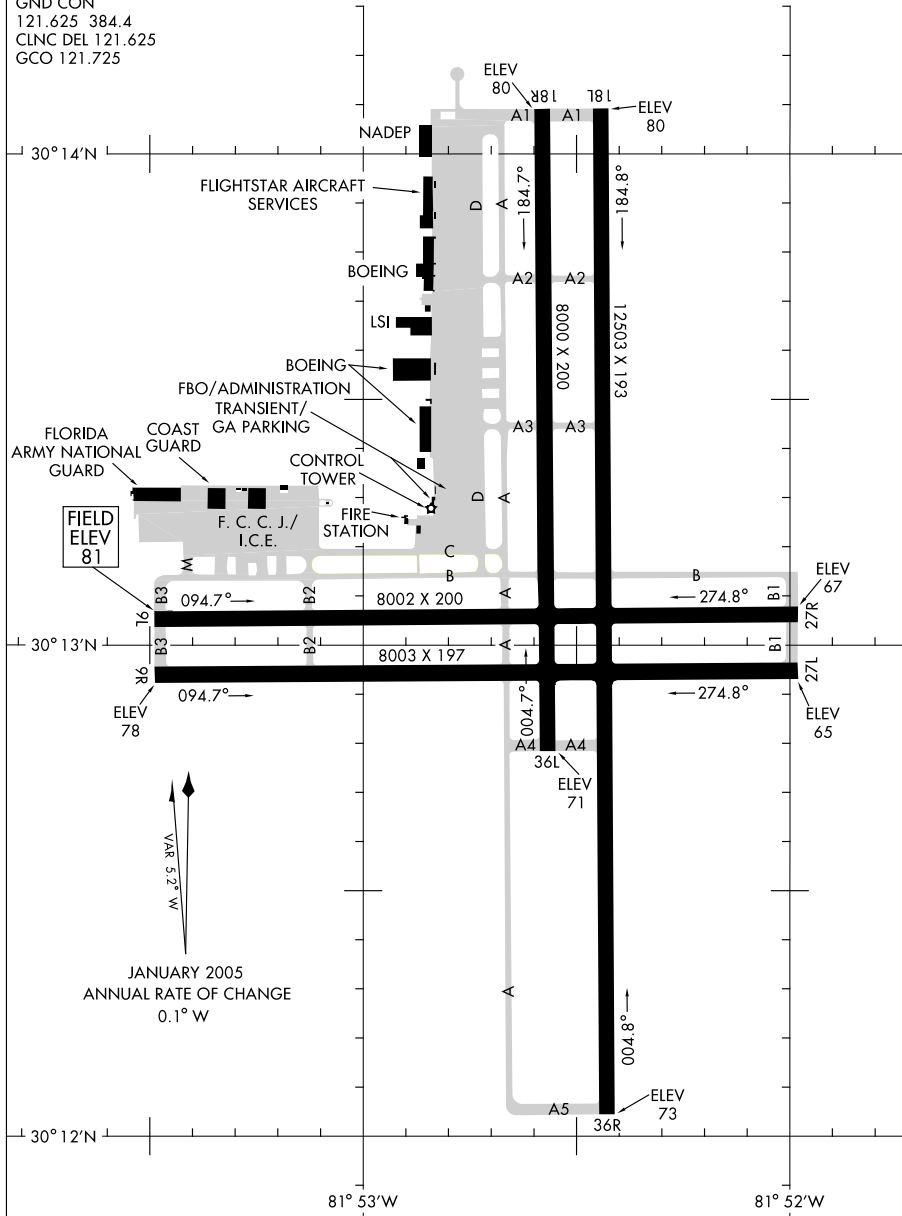
# AIRPORT DIAGRAM

AL-998 (FAA)

JACKSONVILLE/ CECIL FIELD (VQQ)  
JACKSONVILLE, FLORIDA

ATIS 125.275  
CECIL TOWER ★  
126.1 387.025  
GND CON  
121.625 384.4  
CLNC DEL 121.625  
GCO 121.725

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



# AIRPORT DIAGRAM

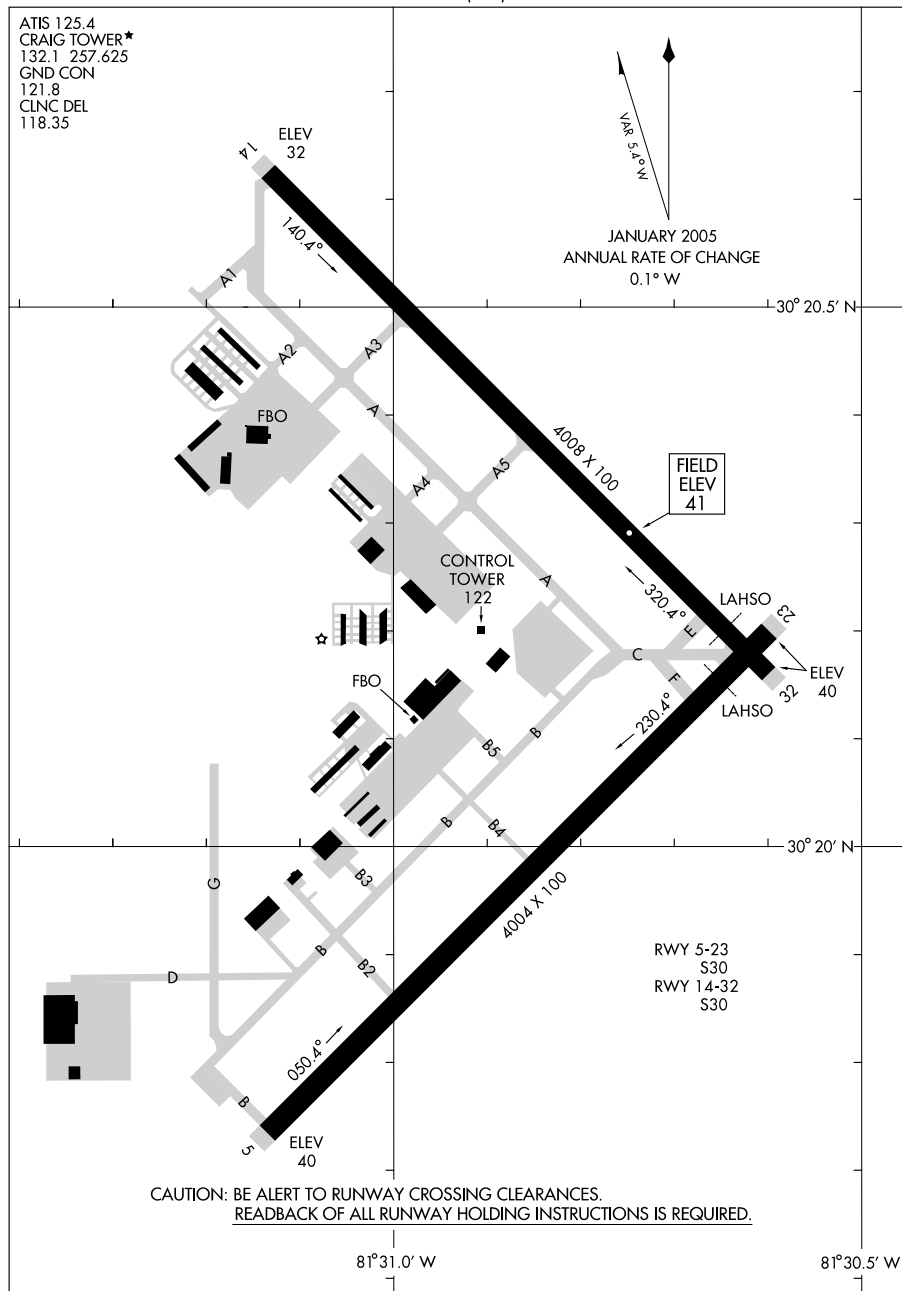
08157

JACKSONVILLE, FLORIDA  
JACKSONVILLE/ CECIL FIELD (VQQ)

07354

## AIRPORT DIAGRAM

AL-208 (FAA)

JACKSONVILLE/CRAIG MUNI (CRG)  
JACKSONVILLE, FLORIDA

## AIRPORT DIAGRAM

07354

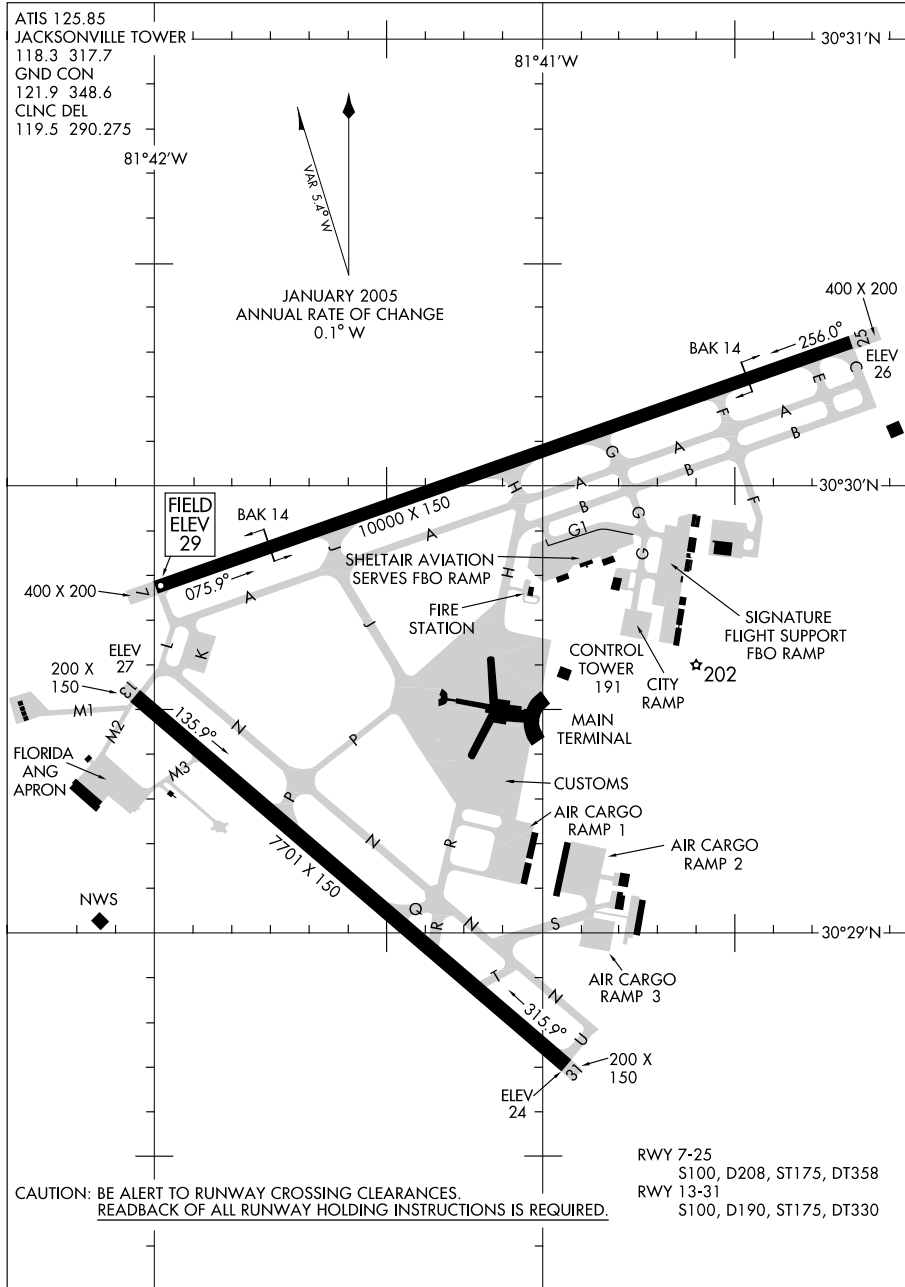
JACKSONVILLE, FLORIDA  
JACKSONVILLE/ CRAIG MUNI (CRG)

08269

# AIRPORT DIAGRAM

AL-5570 (FAA)

JACKSONVILLE INTL (JAX)  
JACKSONVILLE, FLORIDA



# AIRPORT DIAGRAM

08269

JACKSONVILLE, FLORIDA  
JACKSONVILLE INTL (JAX)

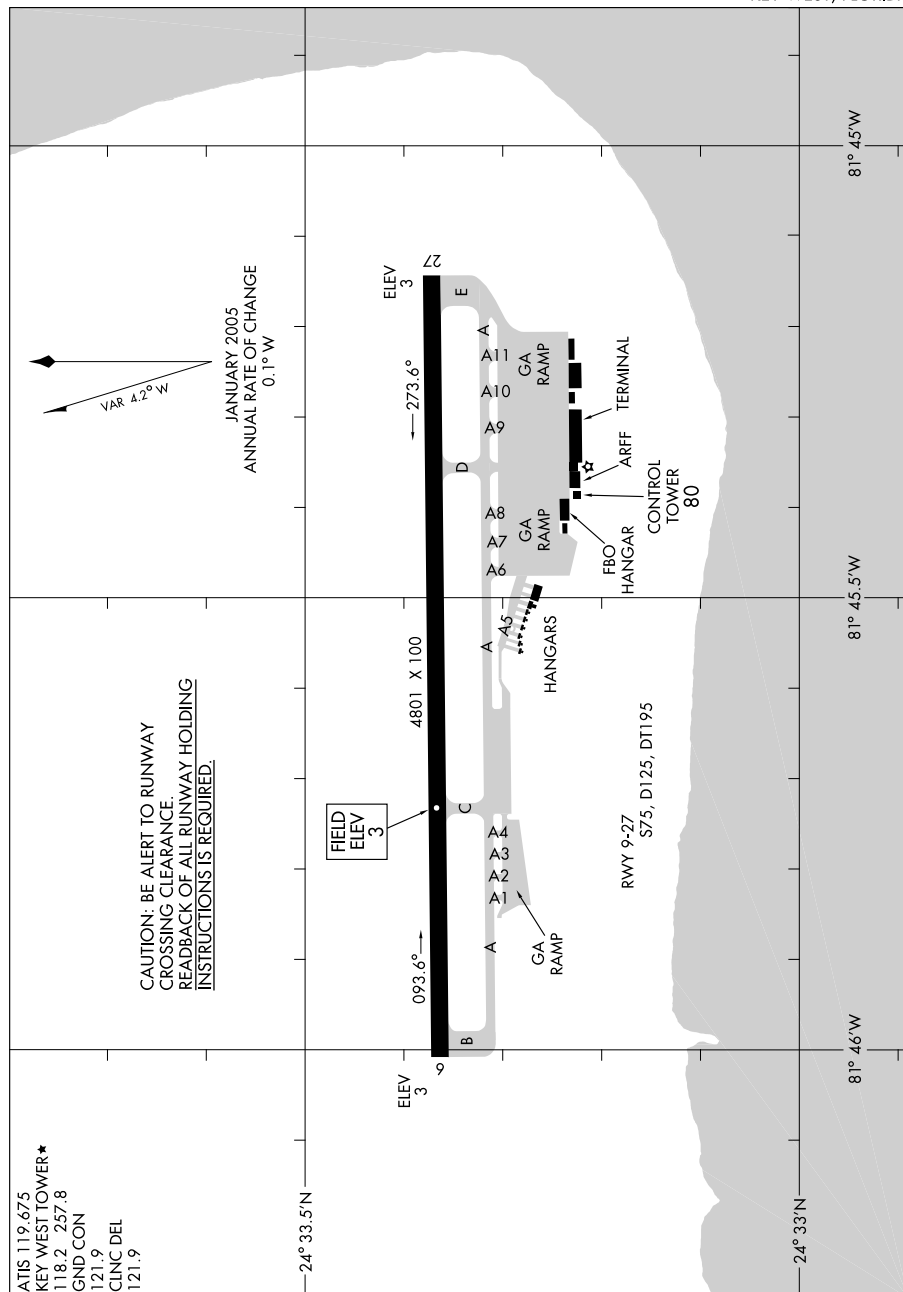
06215

## AIRPORT DIAGRAM

AL-606 (FAA)

KEY WEST INTL (EYW)

KEY WEST, FLORIDA



## AIRPORT DIAGRAM

06215

KEY WEST, FLORIDA  
KEY WEST INTL (EYW)

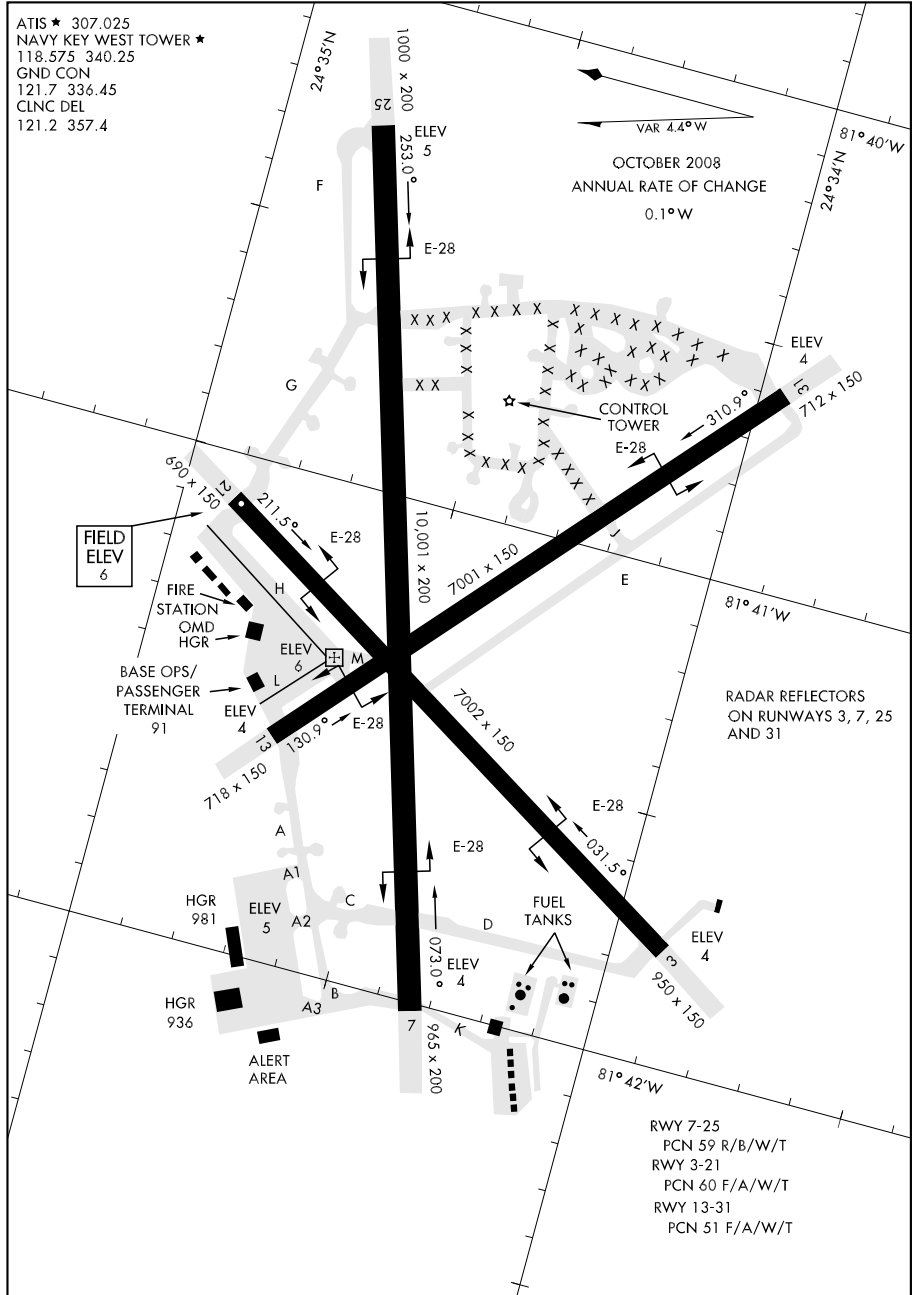
09015

# AIRPORT DIAGRAM

KEY WEST NAS (BOCA CHICA FLD) (KNQX)

AFD-21.4 [USN]

KEY WEST, FLORIDA



# AIRPORT DIAGRAM

KEY WEST, FLORIDA

KEY WEST NAS (BOCA CHICA FLD) (KNQX)

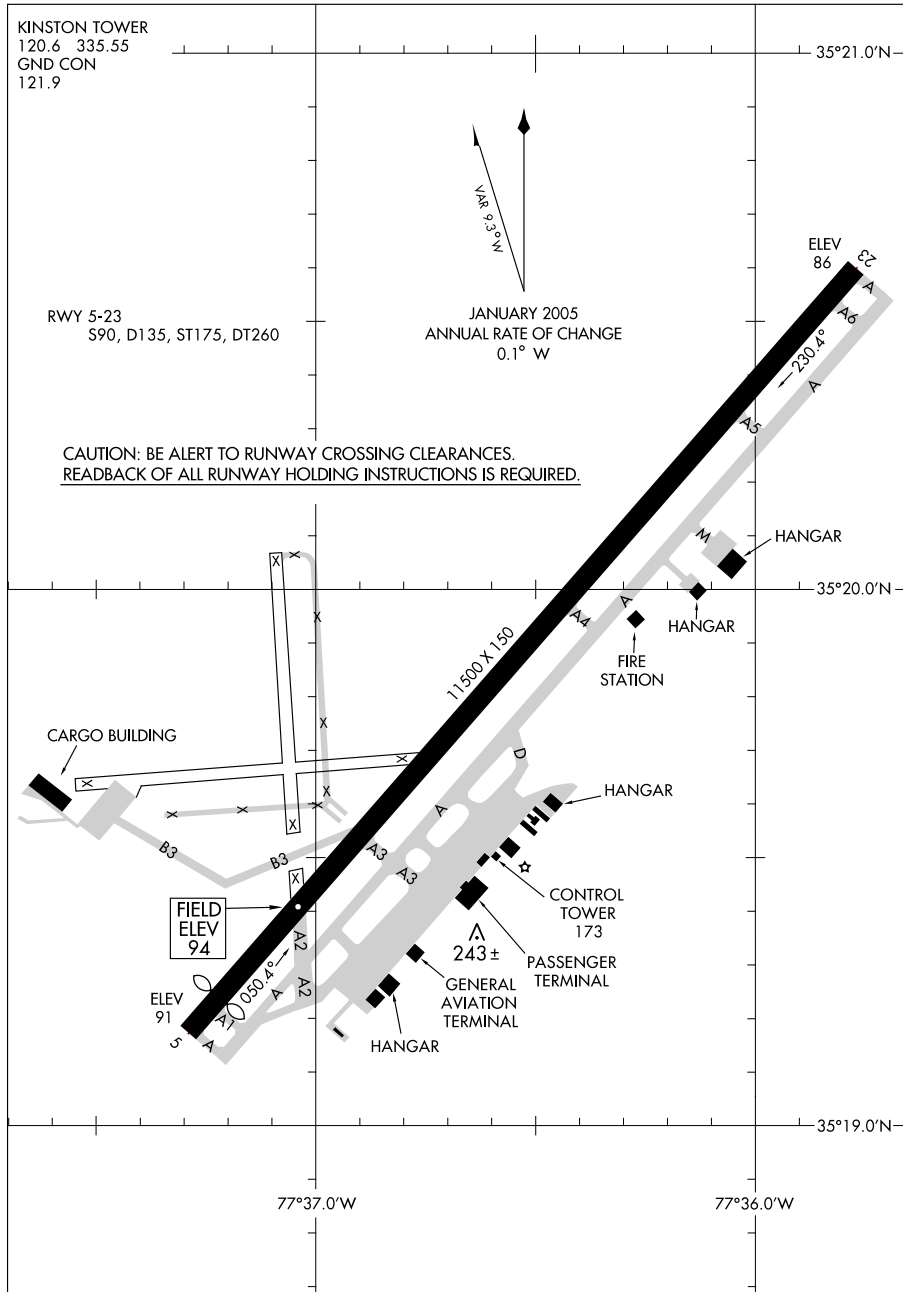
07298

# AIRPORT DIAGRAM

KINSTON RGNL JETPORT AT STALLINGS FIELD (ISO)

AL-5038 (FAA)

KINSTON, NORTH CAROLINA

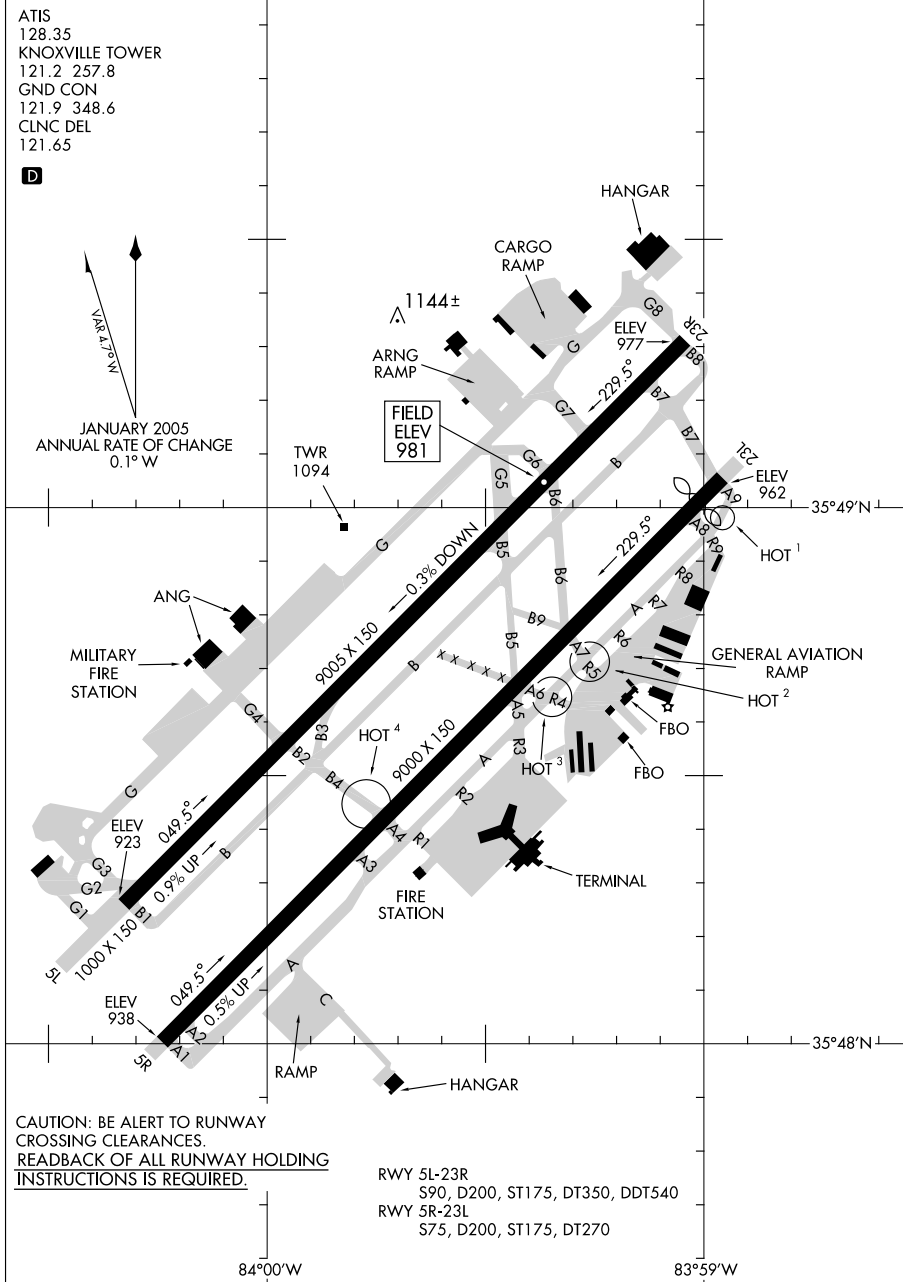


10098

# AIRPORT DIAGRAM

AL-218 (FAA)

KNOXVILLE / MCGHEE-TYSON (TYS)  
KNOXVILLE, TENNESSEE



# AIRPORT DIAGRAM

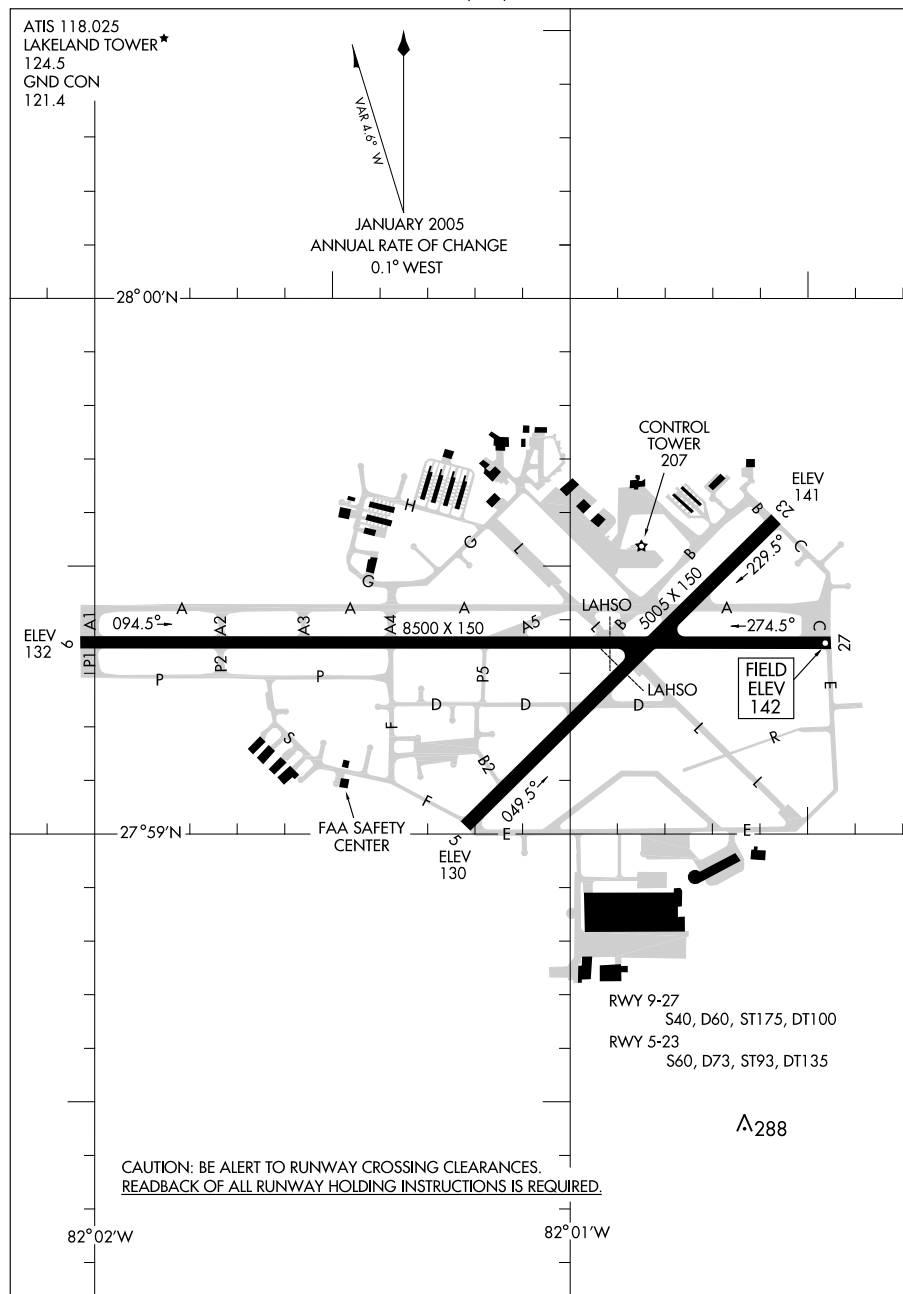
10098

KNOXVILLE, TENNESSEE  
KNOXVILLE / MCGHEE-TYSON (TYS)

07354

## AIRPORT DIAGRAM

AL-939 (FAA)

LAKELAND LINDER RGNL (LAL)  
LAKELAND, FLORIDA

## AIRPORT DIAGRAM

07354

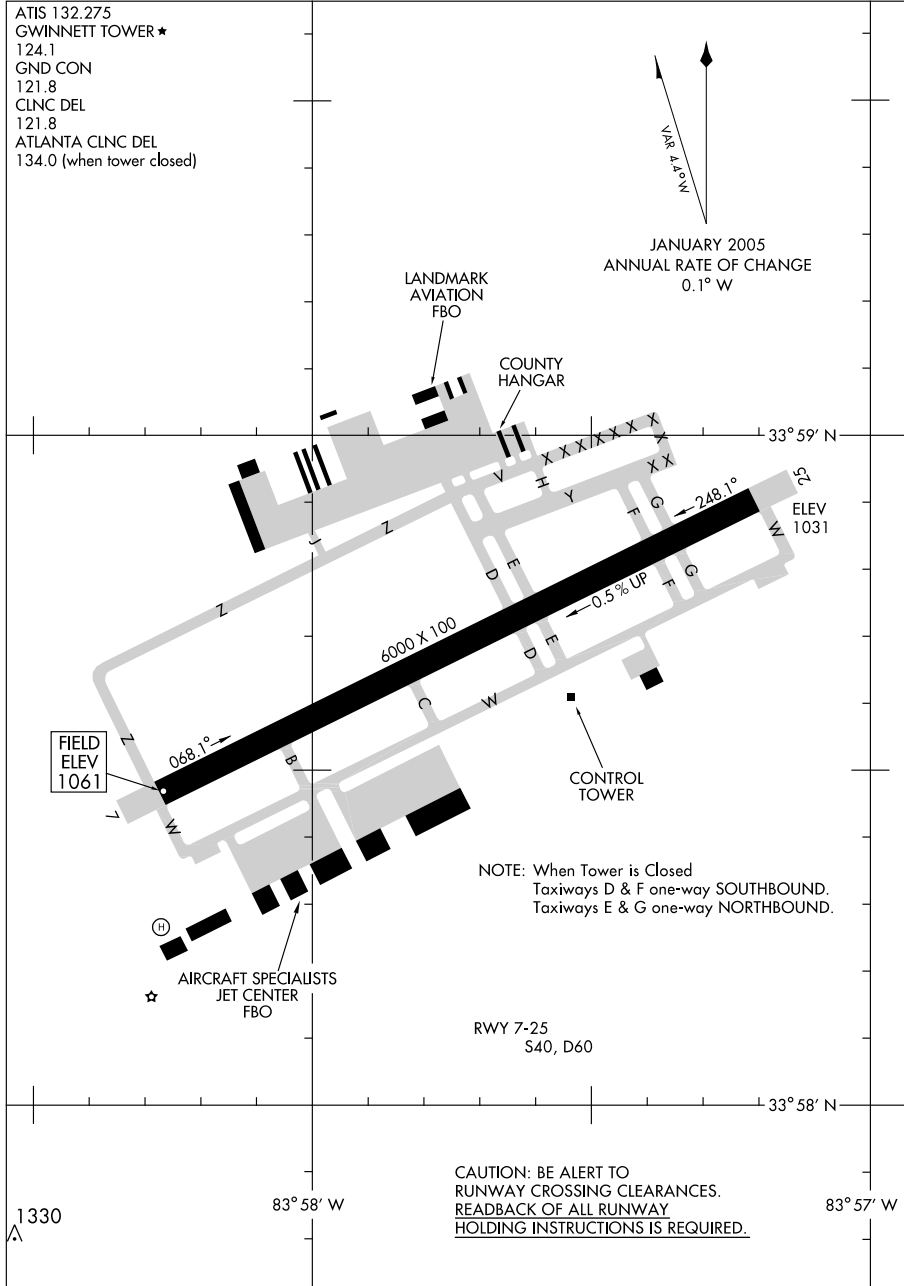
LAKELAND, FLORIDA  
LAKELAND LINDER RGNL (LAL)



07130

# AIRPORT DIAGRAM

LAWRENCEVILLE/GWINNETT COUNTY-BRISCOE FIELD (LZU)  
AL-5385 (FAA) LAWRENCEVILLE, GEORGIA



# AIRPORT DIAGRAM

07130

LAWRENCEVILLE, GEORGIA  
LAWRENCEVILLE/GWINNETT COUNTY-BRISCOE FIELD (LZU)

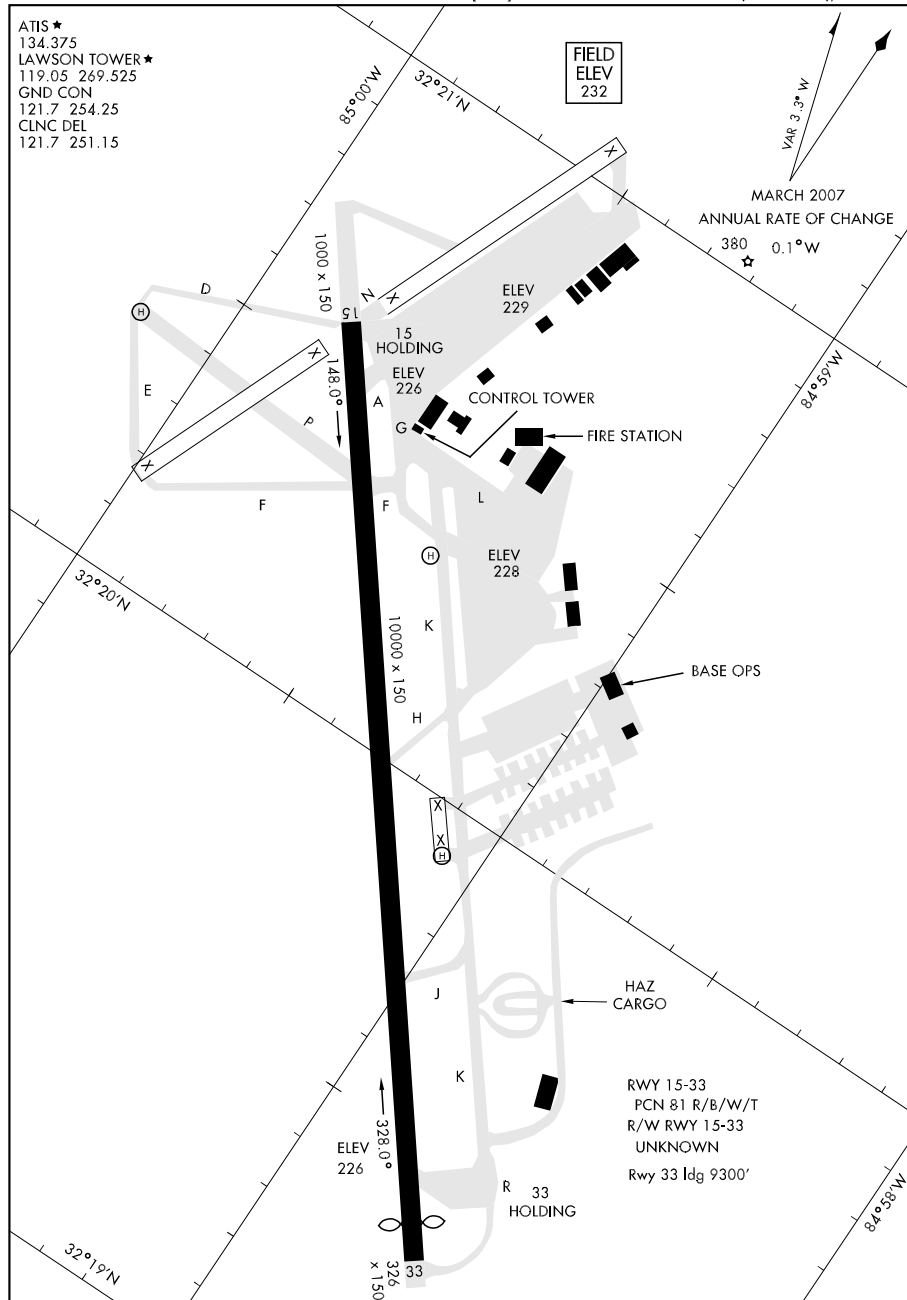
07074

## AIRPORT DIAGRAM

AFD-146 [USA]

LAWSON AAF (KLSF)

FT. BENNING (COLUMBUS), GEORGIA



## AIRPORT DIAGRAM

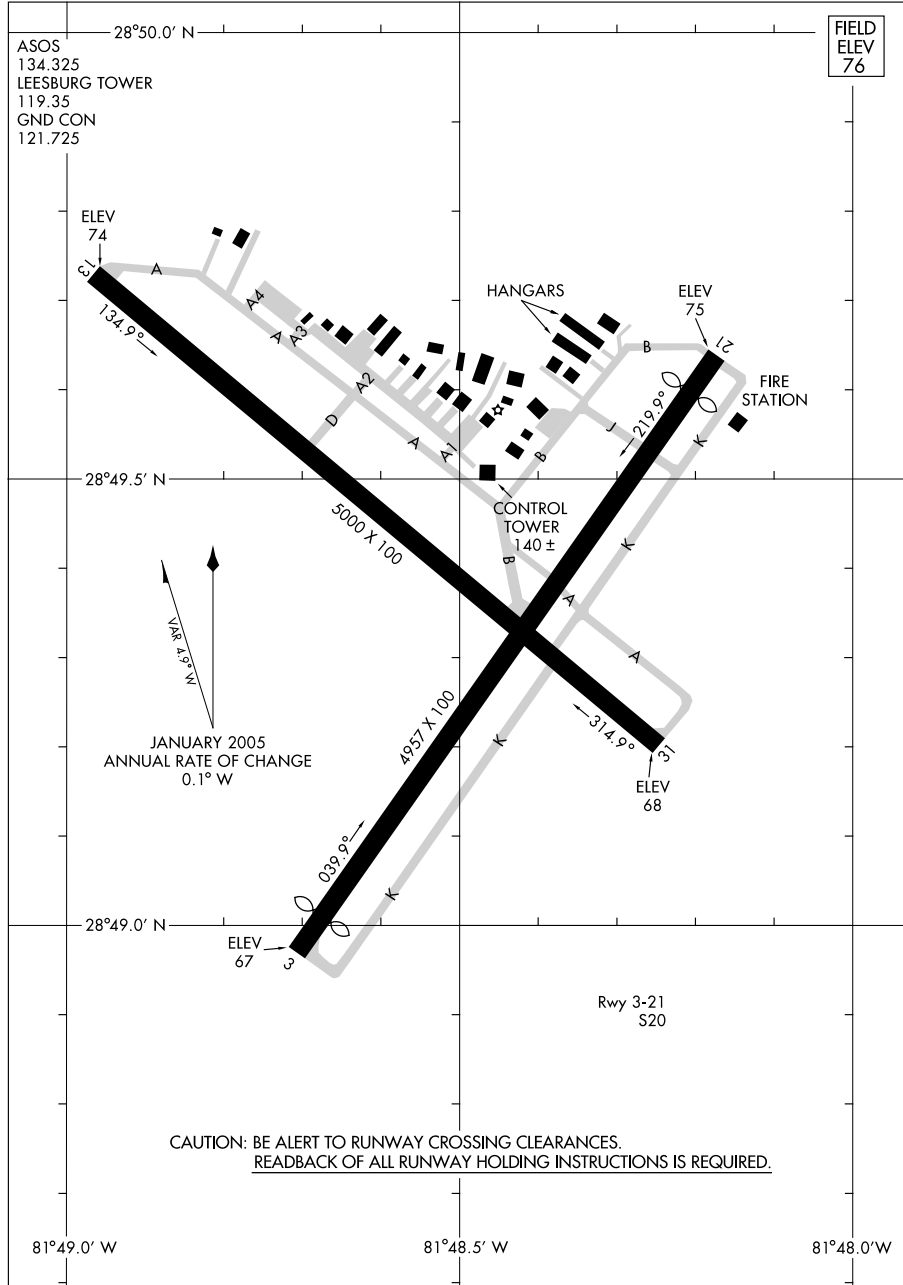
FT. BENNING (COLUMBUS), GEORGIA

LAWSON AAF (KLSF)

09295

## AIRPORT DIAGRAM

AL-6676 (FAA)

LEESBURG INTL (LEE)  
LEESBURG, FLORIDA

## AIRPORT DIAGRAM

09295

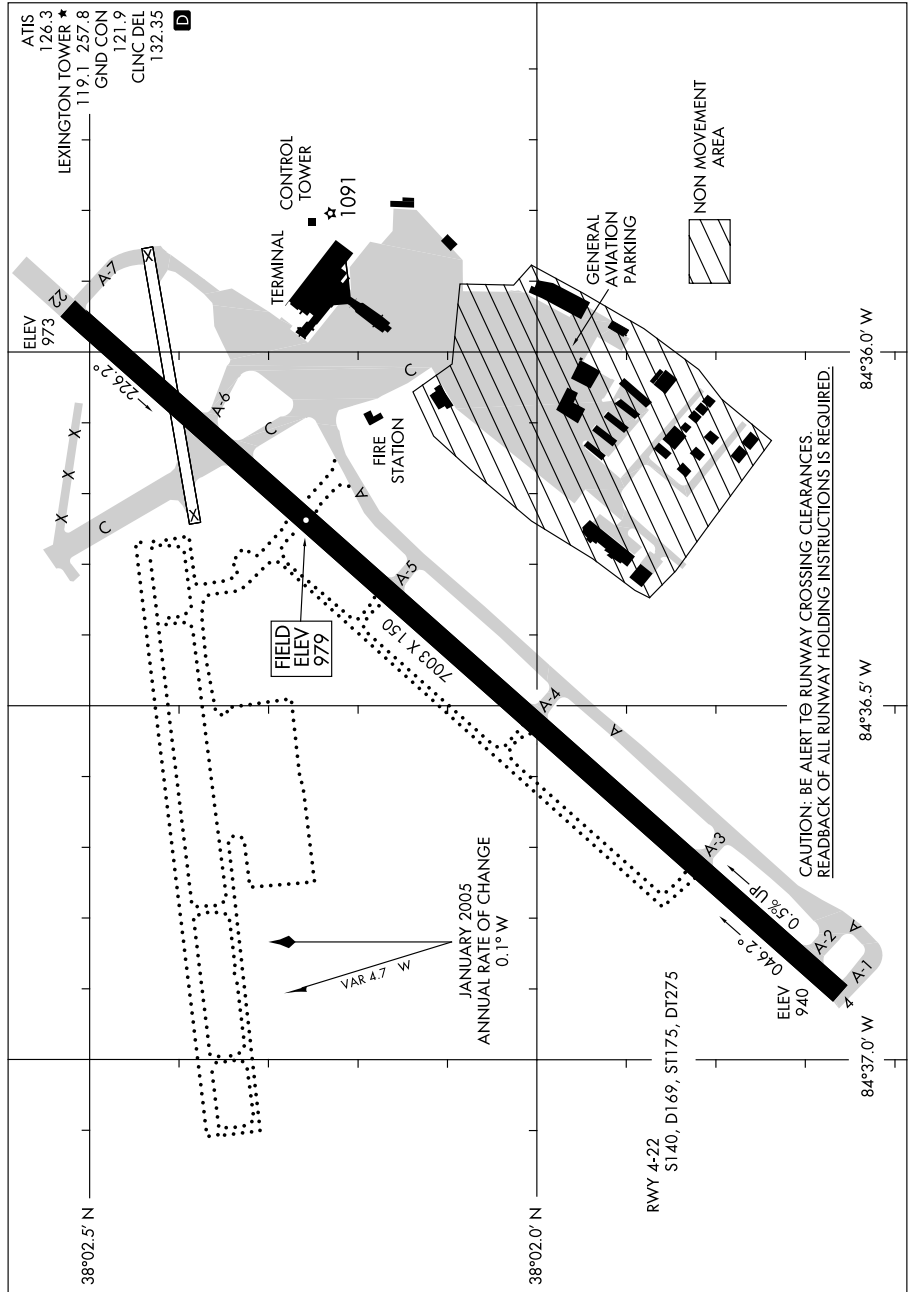
LEESBURG, FLORIDA  
LEESBURG INTL (LEE)

09351

AIRPORT DIAGRAM

AL-697 (FAA)

LEXINGTON / BLUE GRASS (LEX)  
LEXINGTON, KENTUCKY



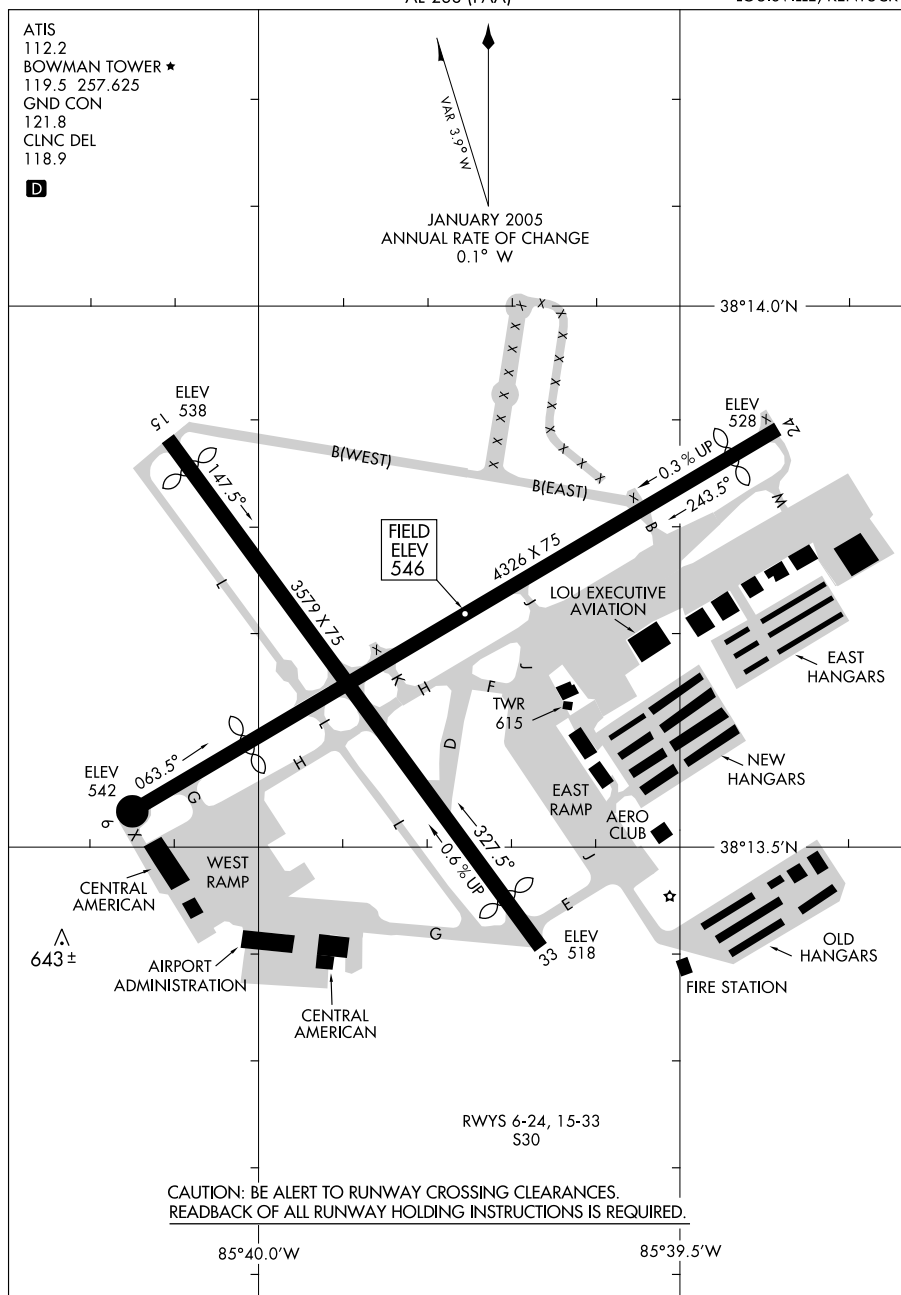
AIRPORT DIAGRAM

09351

LEXINGTON, KENTUCKY  
LEXINGTON / BLUE GRASS (LEX)

09351

## AIRPORT DIAGRAM

LOUISVILLE/ BOWMAN FIELD (LOU)  
LOUISVILLE, KENTUCKY

## AIRPORT DIAGRAM

09351

LOUISVILLE, KENTUCKY  
LOUISVILLE/ BOWMAN FIELD (LOU)

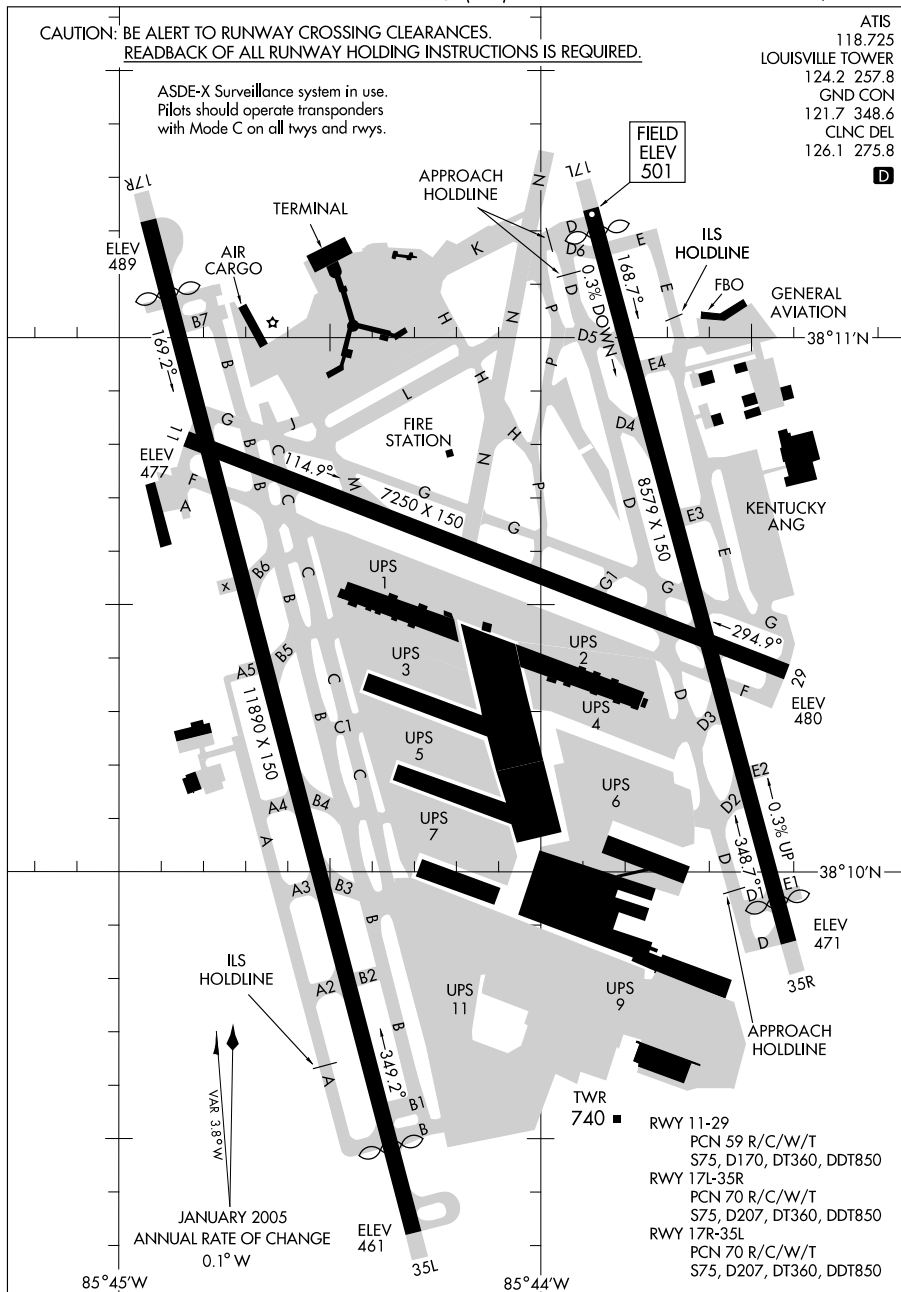
10098

## AIRPORT DIAGRAM

LOUISVILLE INTL-STANDIFORD FIELD (SDF)

AL-239 (FAA)

LOUISVILLE, KENTUCKY



## AIRPORT DIAGRAM

10098

LOUISVILLE, KENTUCKY  
LOUISVILLE INTL-STANDIFORD FIELD (SDF)

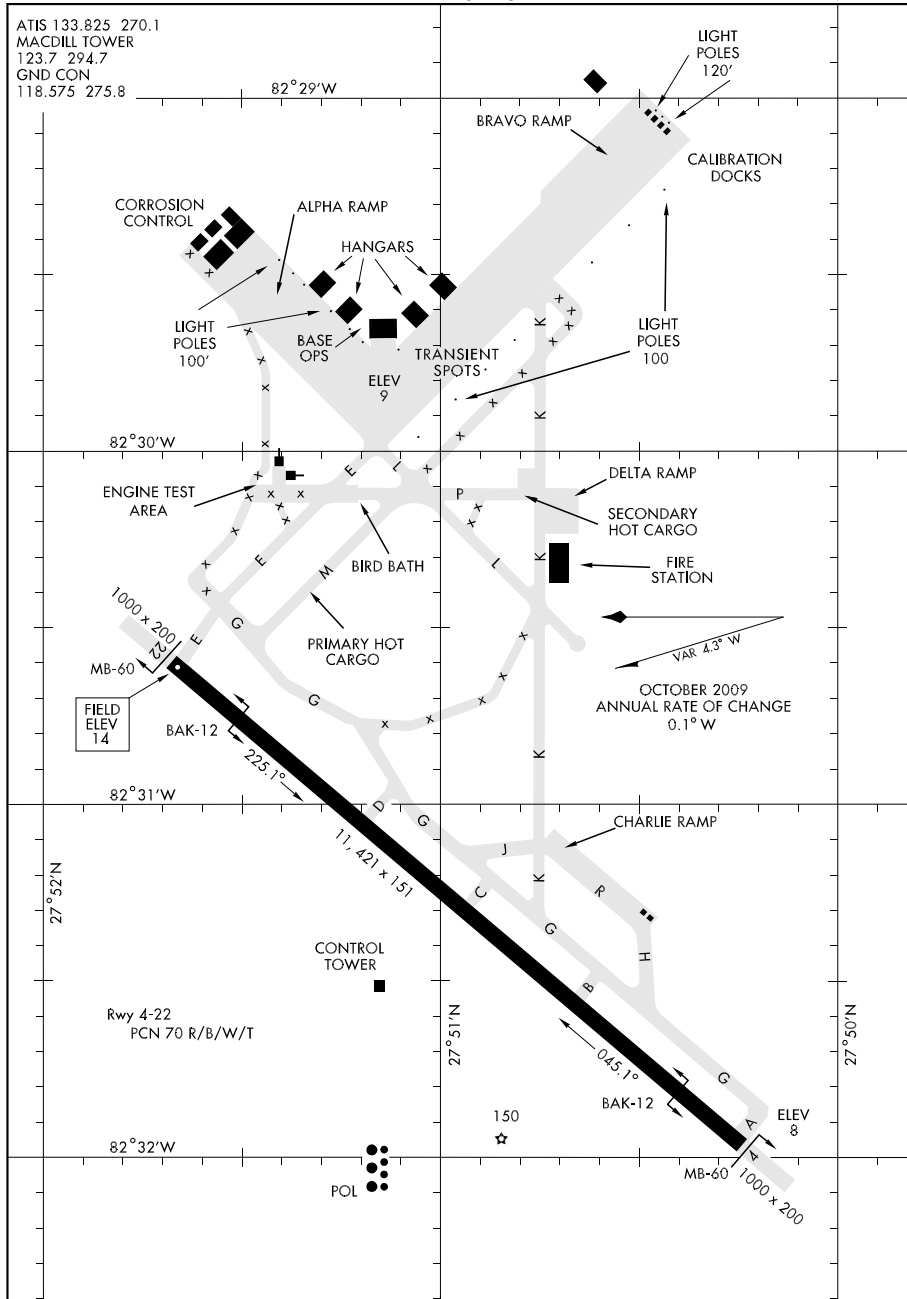
09295

## AIRPORT DIAGRAM

AFD-418 [USAF]

MACDILL AFB (KMCF)

TAMPA, FLORIDA



## AIRPORT DIAGRAM

TAMPA, FLORIDA  
MACDILL AFB (KMCF)

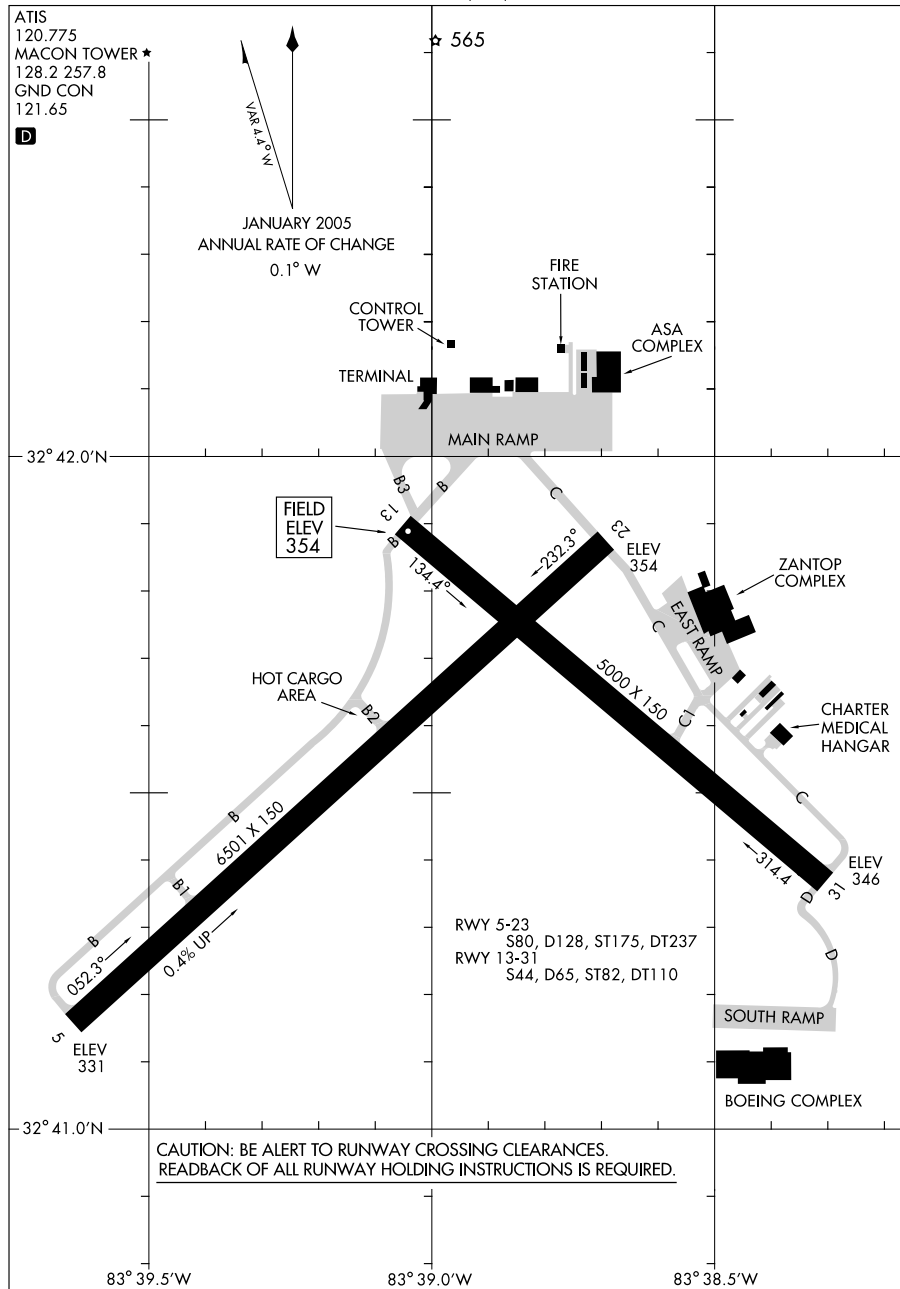
09351

## AIRPORT DIAGRAM

MACON/ MIDDLE GEORGIA RGNL (MCN)

AL-243 (FAA)

MACON, GEORGIA



## AIRPORT DIAGRAM

09351

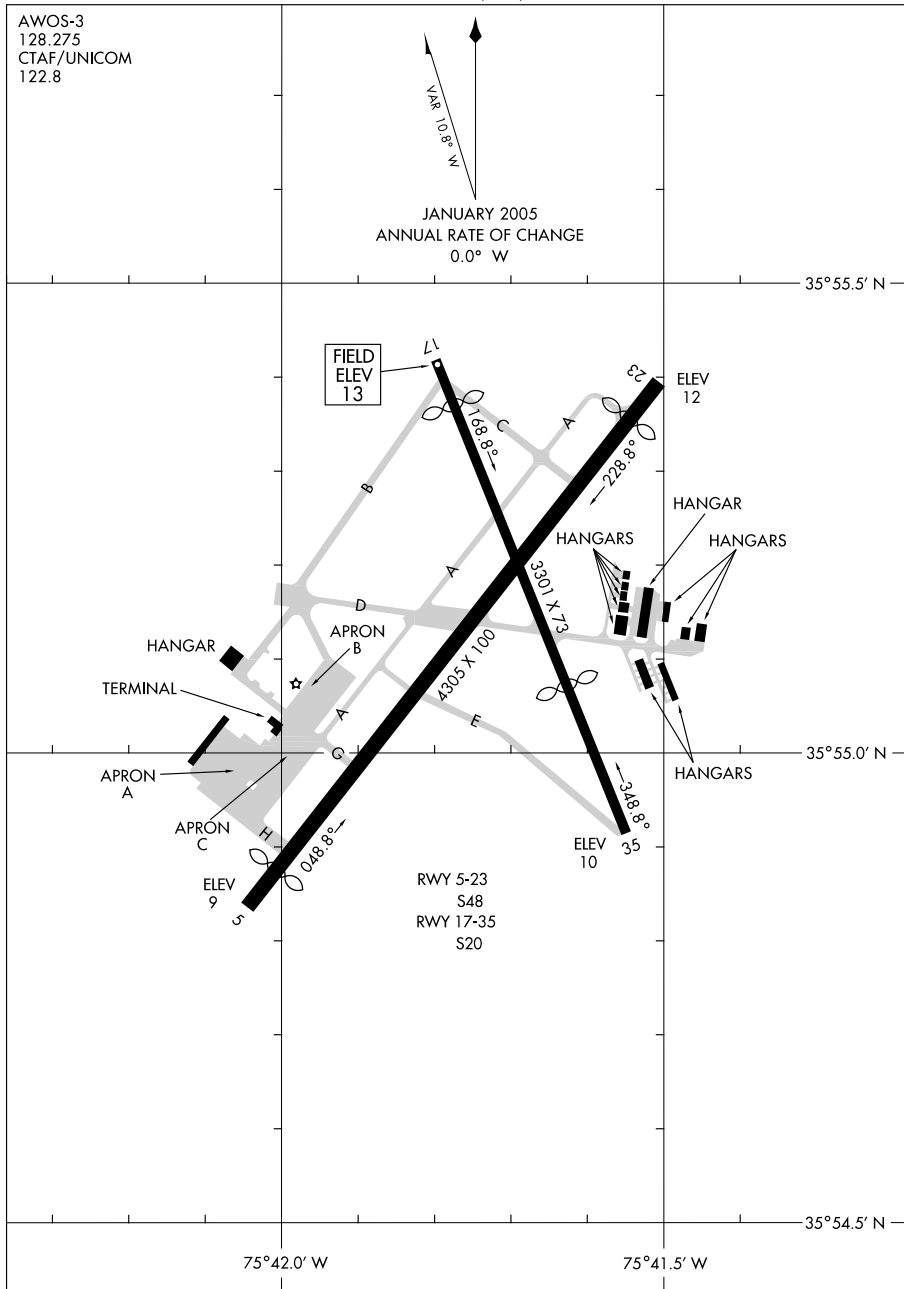
MACON, GEORGIA  
MACON/ MIDDLE GEORGIA RGNL (MCN)



09239

# AIRPORT DIAGRAM

MANTEO/ DARE COUNTY RGNL(MQI)  
MANTEO, NORTH CAROLINA



## AIRPORT DIAGRAM

MANTEO, NORTH CAROLINA  
MANTEO/ DARE COUNTY RGNL (MQI)

09239

SE, 08 APR 2010 to 03 JUN 2010

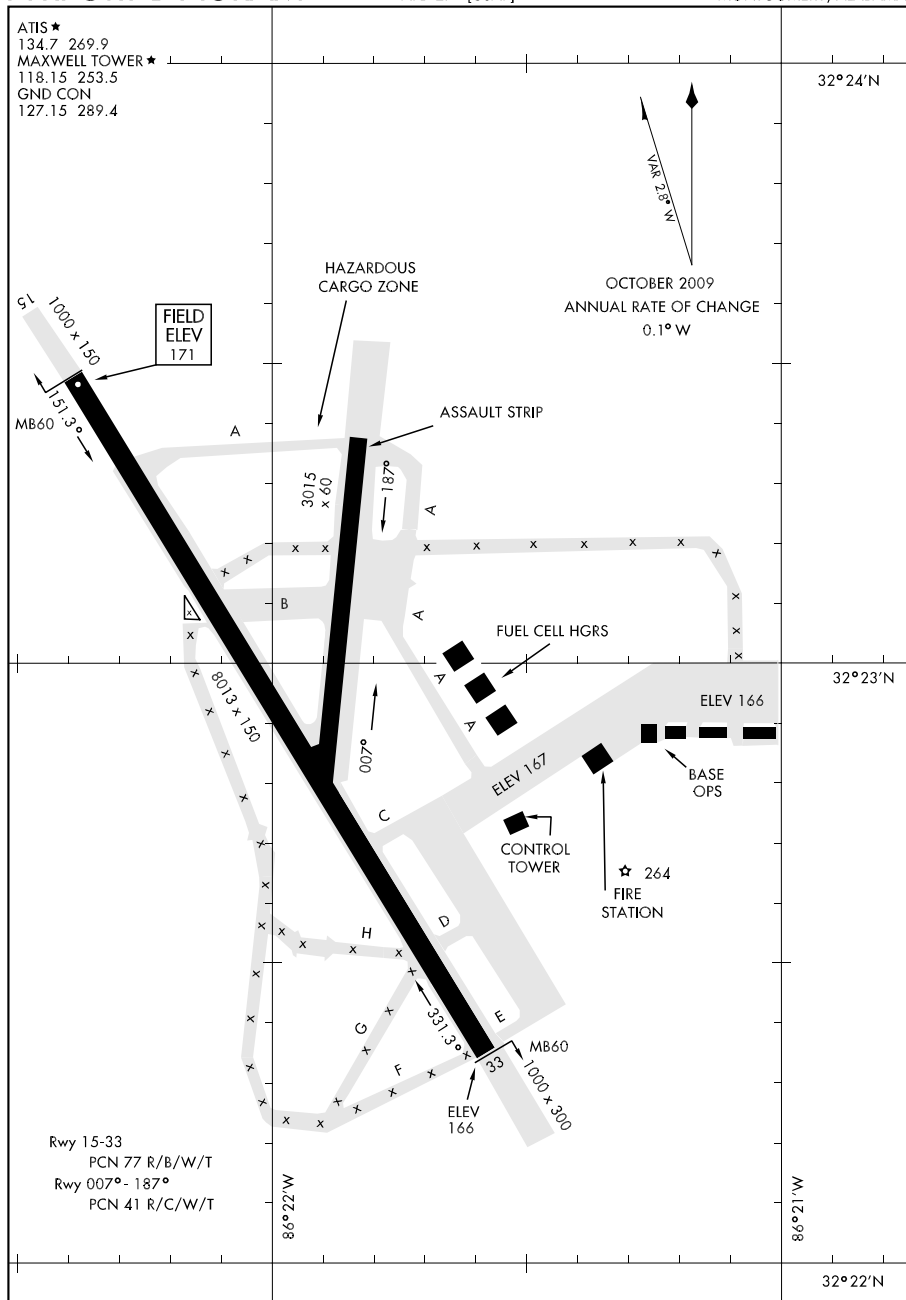
09295

## AIRPORT DIAGRAM

AFD-274 [USAF]

MAXWELL AFB (KMXF)

MONTGOMERY, ALABAMA



## AIRPORT DIAGRAM

 MONTGOMERY, ALABAMA  
 MAXWELL AFB (KMXF)

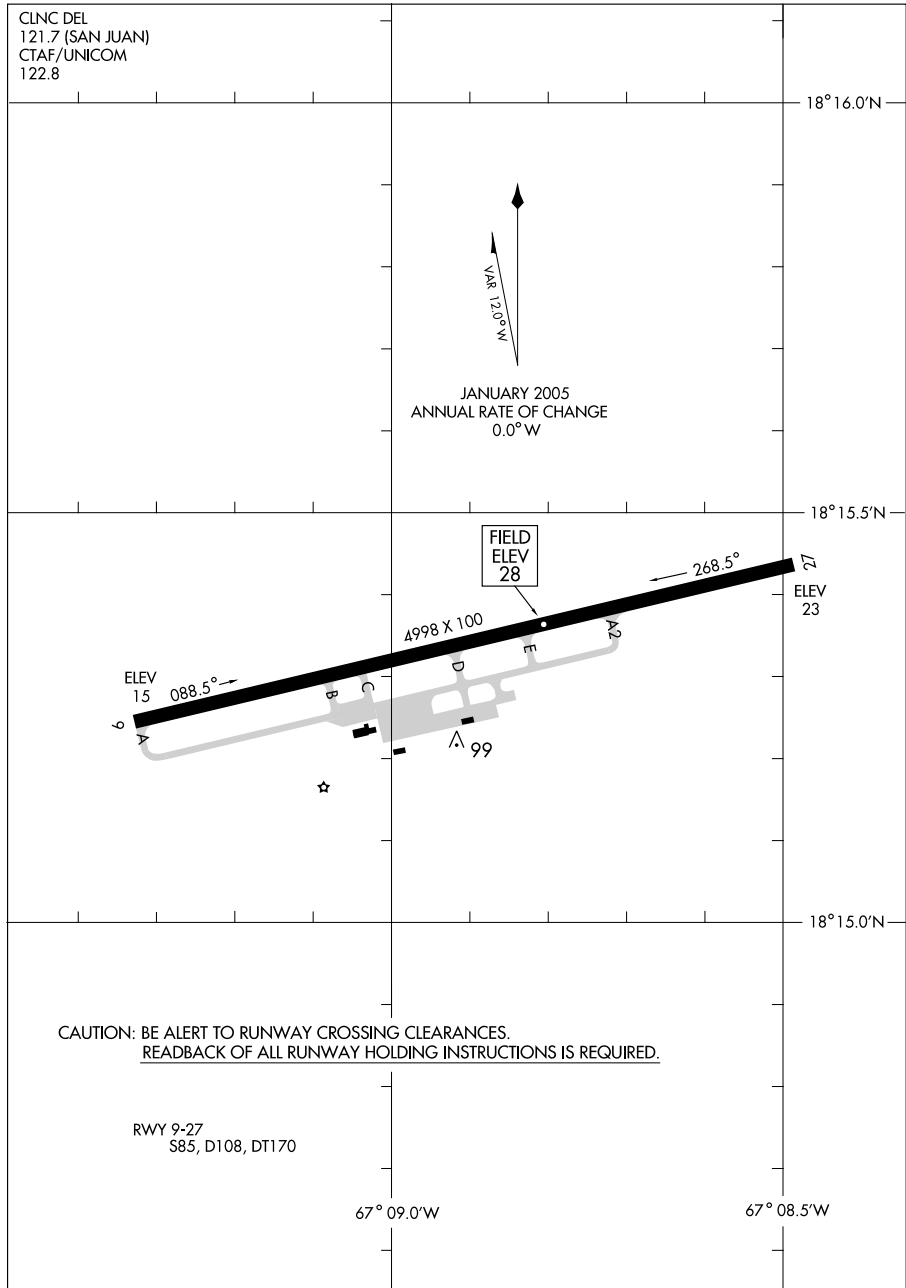
07074

## AIRPORT DIAGRAM

MAYAGUEZ/EUGENIO MARIA DE HOSTOS (MAZ)(TJMZ)

AL-5328 (FAA)

MAYAGUEZ, PUERTO RICO



## AIRPORT DIAGRAM

07074

MAYAGUEZ/EUGENIO MARIA DE HOSTOS (MAZ)(TJMZ)

MAYAGUEZ, PUERTO RICO



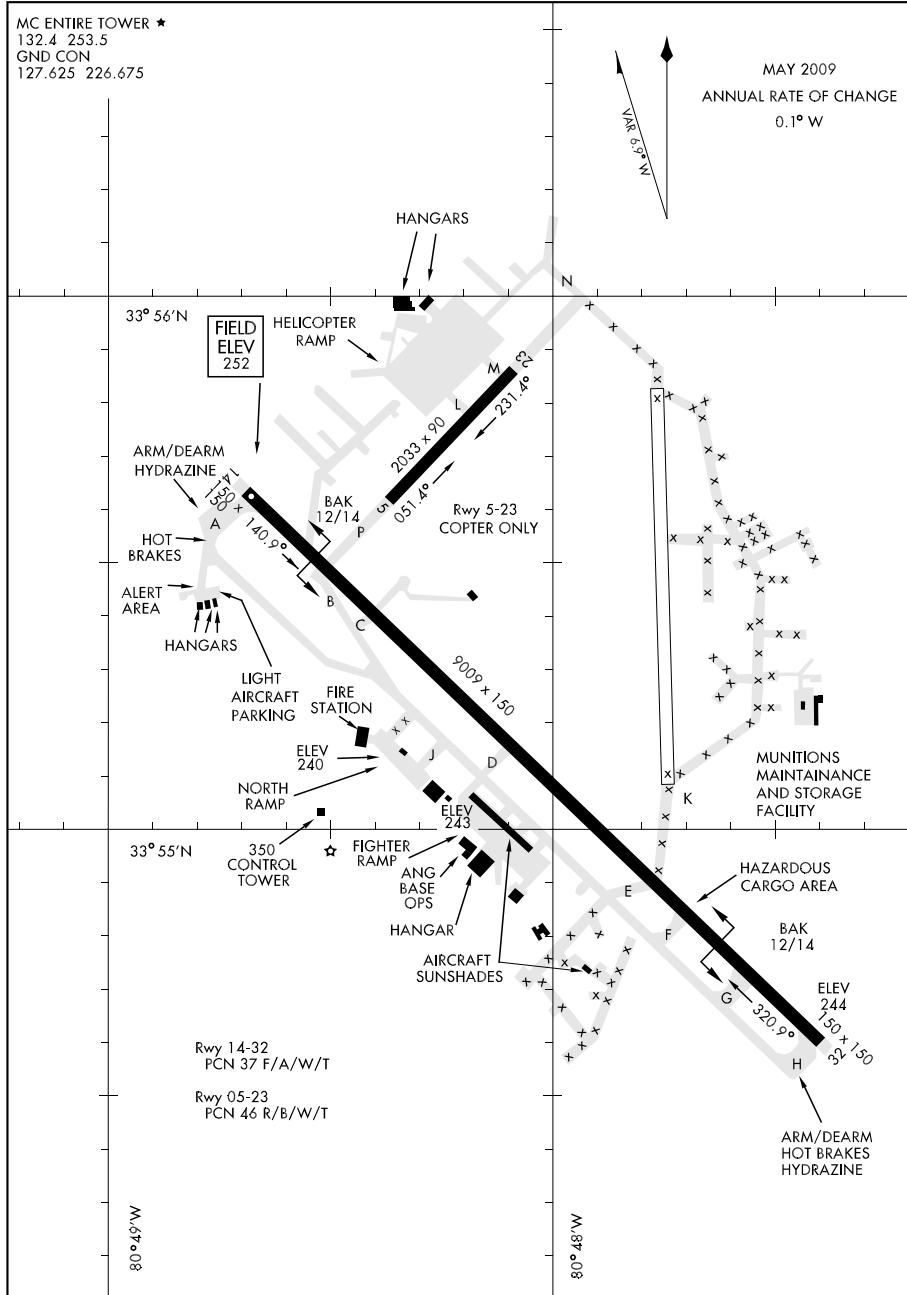
09127

## AIRPORT DIAGRAM

AFD-951 [USAF]

MC ENTIRE JNGB (KMMT)

EASTOVER, SOUTH CAROLINA



## AIRPORT DIAGRAM

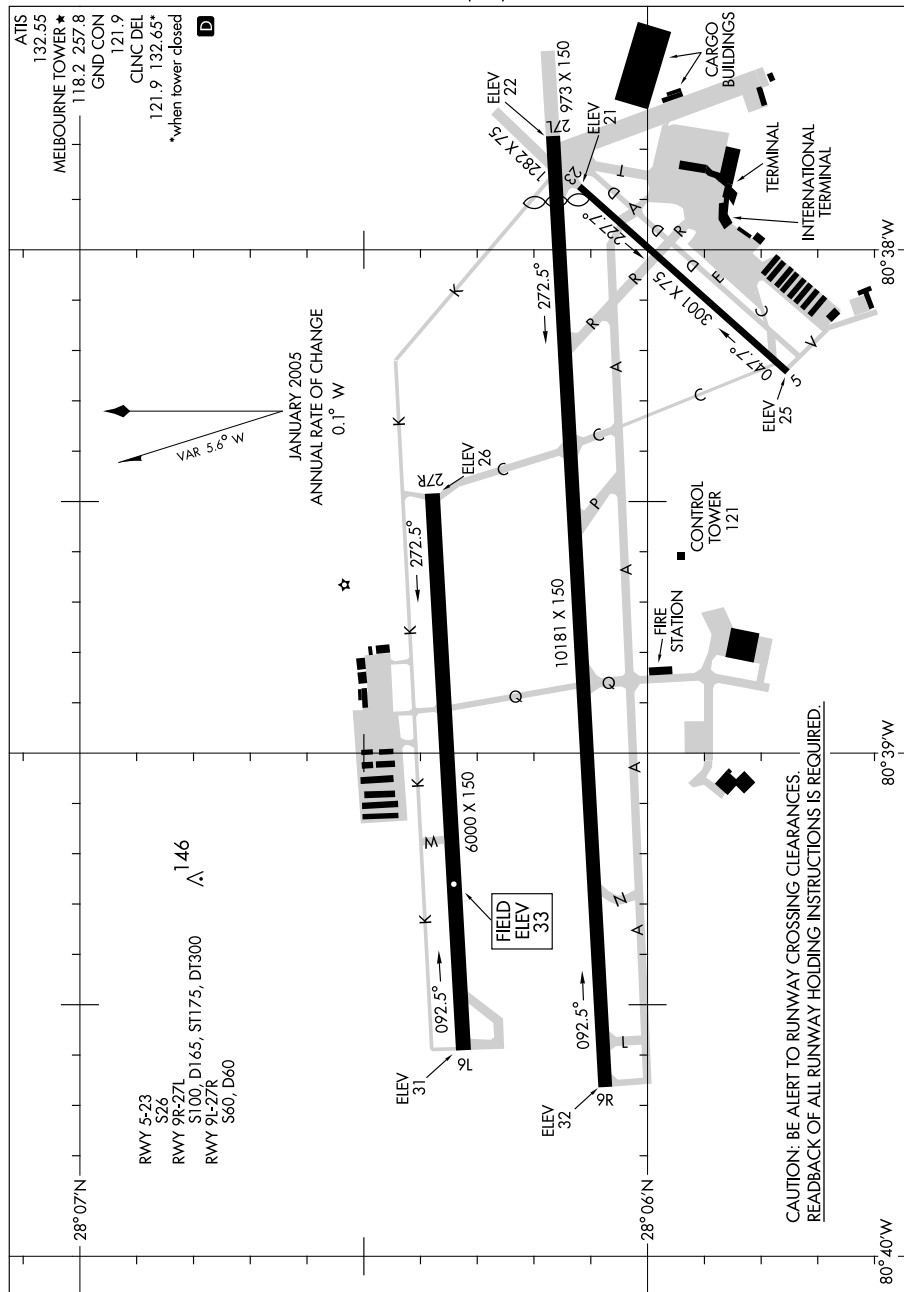
EASTOVER, SOUTH CAROLINA

MC ENTIRE JNGB (KMMT)

09015

## AIRPORT DIAGRAM

AL-252 (FAA)

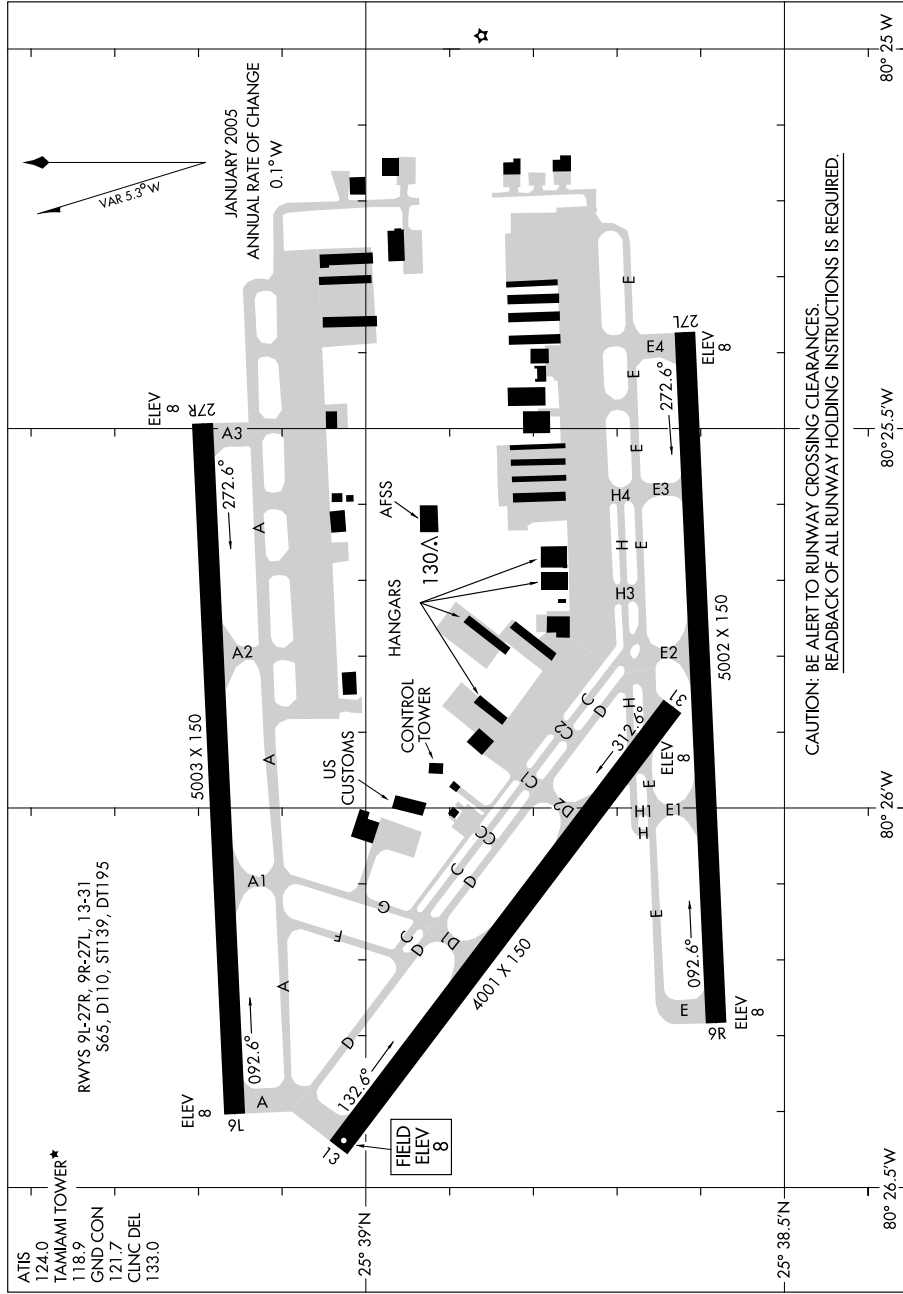
MELBOURNE INTL (MLB)  
MELBOURNE, FLORIDA

## AIRPORT DIAGRAM

09015

MELBOURNE, FLORIDA  
MELBOURNE INTL (MLB)





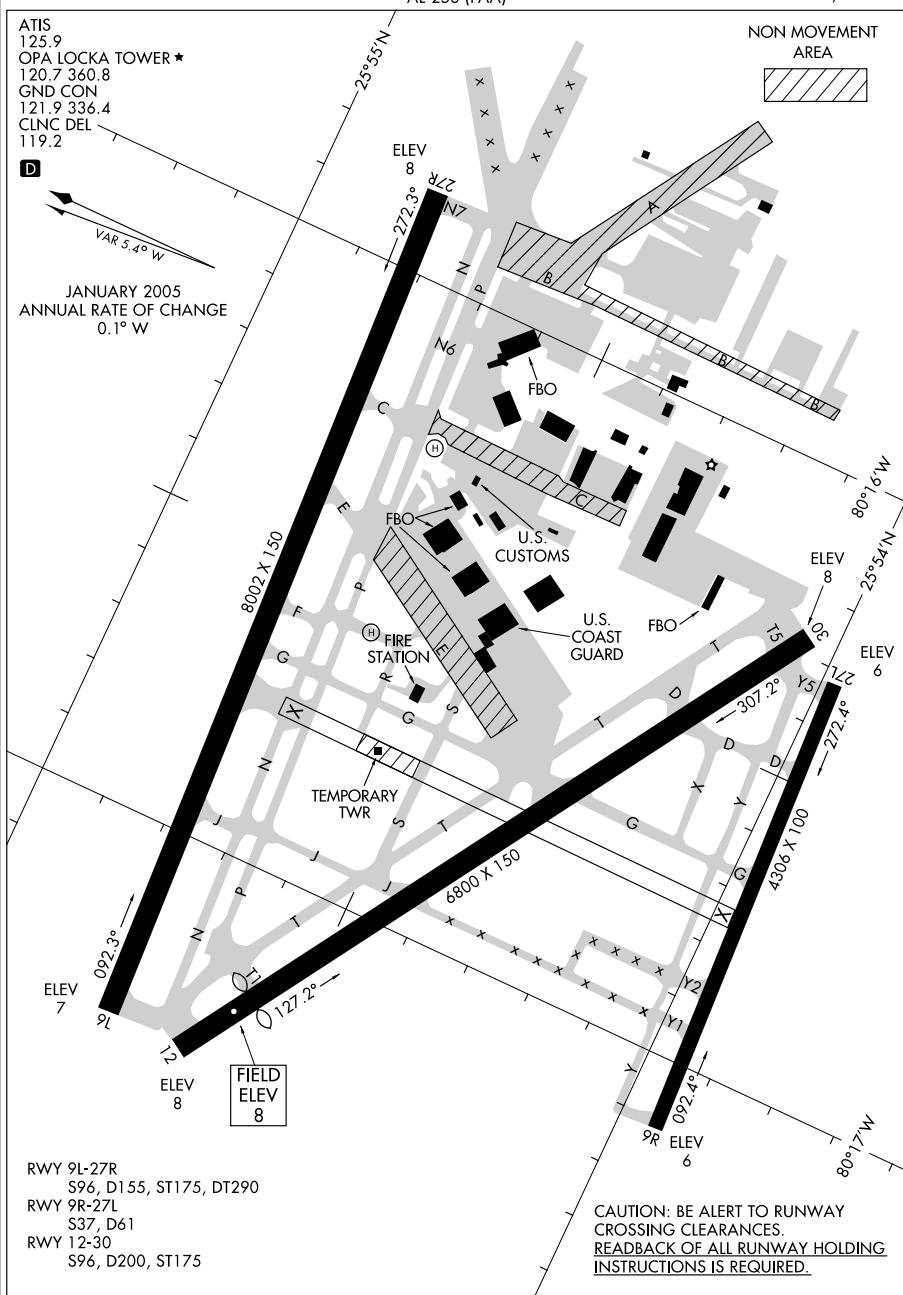
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.





10098

## AIRPORT DIAGRAM

MIAMI/OPA LOCKA EXECUTIVE (OPF)  
MIAMI, FLORIDA

## AIRPORT DIAGRAM

10098

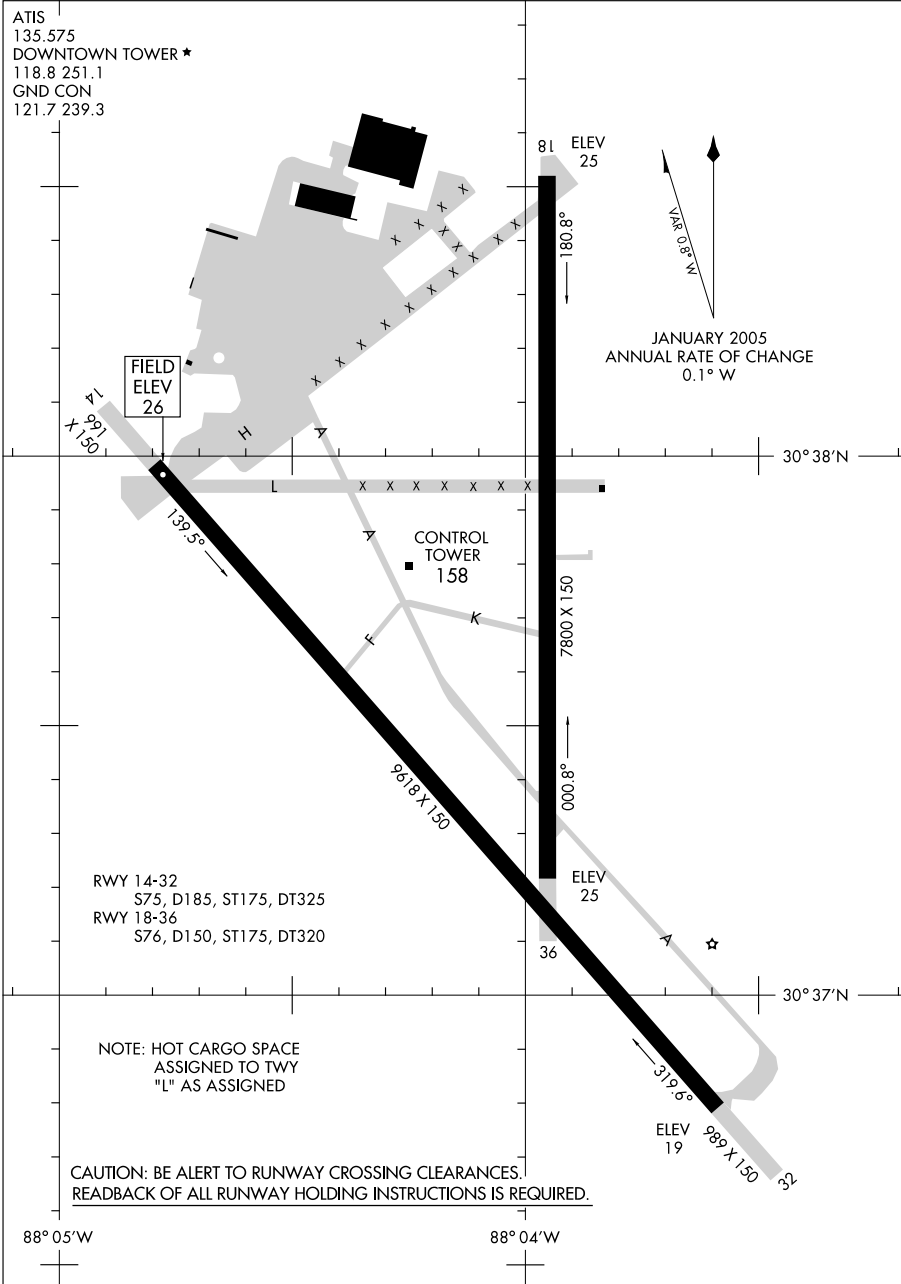
MIAMI, FLORIDA  
MIAMI/OPA LOCKA EXECUTIVE (OPF)

07298

# AIRPORT DIAGRAM

AL-268 (FAA)

MOBILE DOWNTOWN (BFM)  
MOBILE, ALABAMA



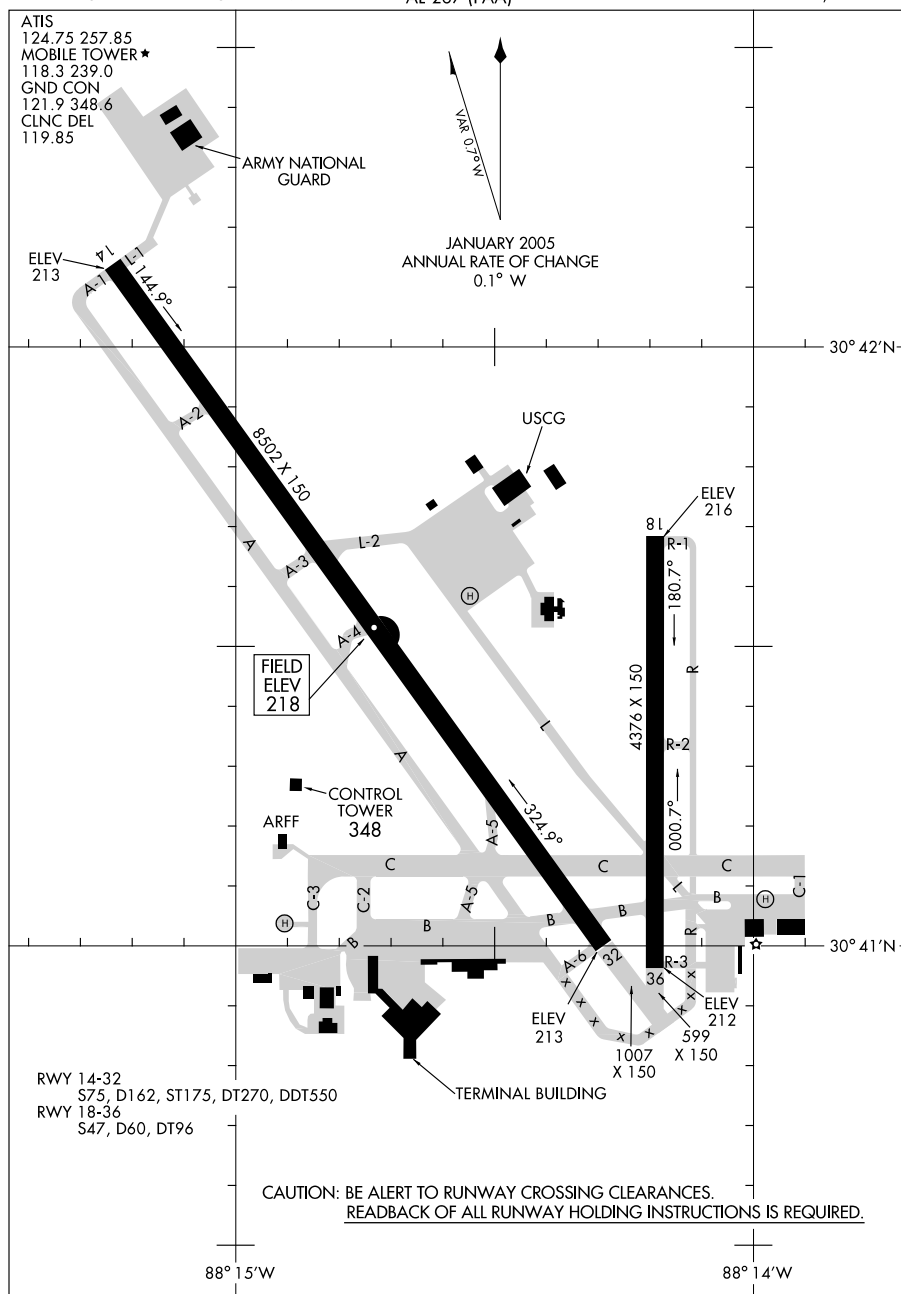
# AIRPORT DIAGRAM

07298

MOBILE, ALABAMA  
MOBILE DOWNTOWN (BFM)

08101

## AIRPORT DIAGRAM

MOBILE RGNL (MOB)  
MOBILE, ALABAMA

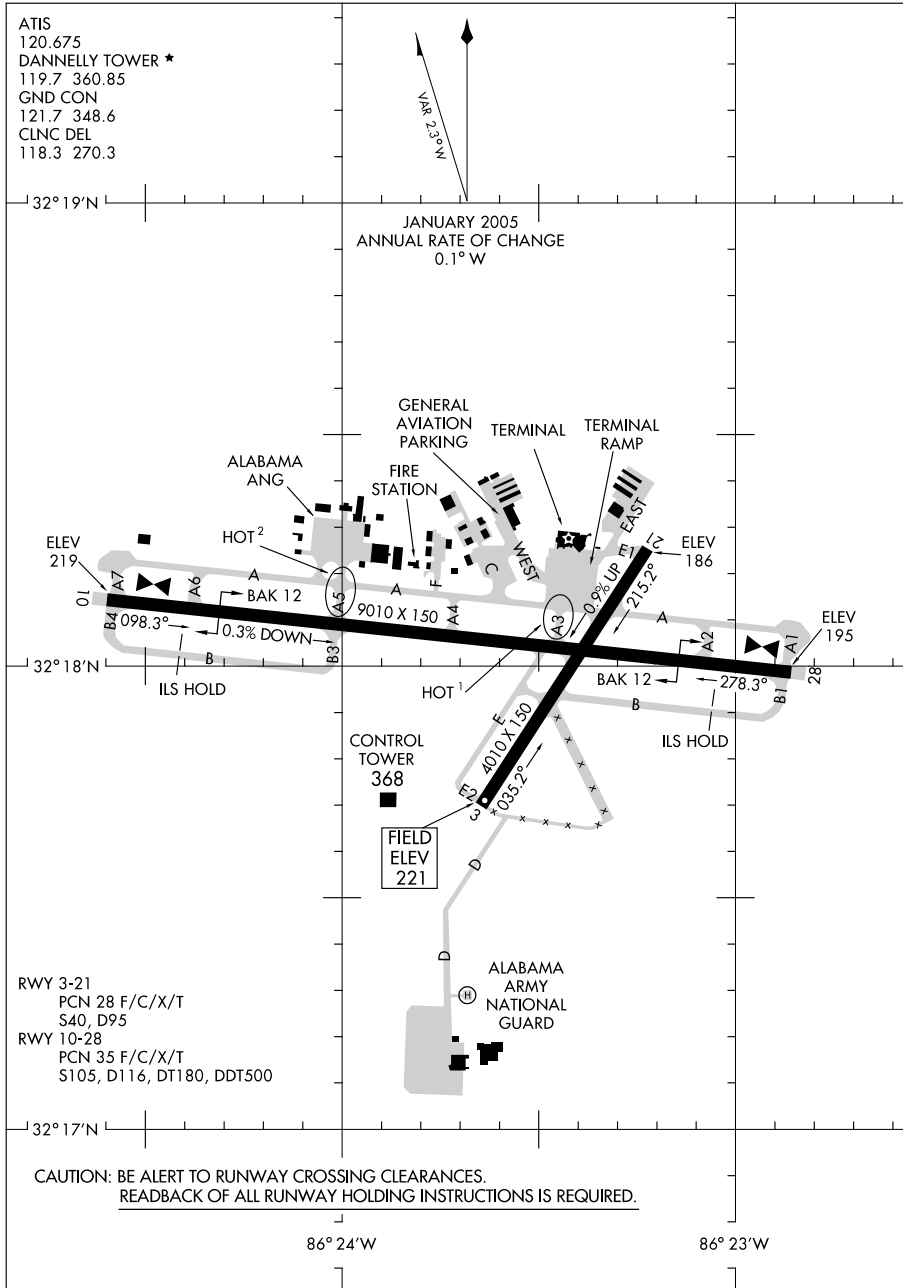
## AIRPORT DIAGRAM

08101

MOBILE, ALABAMA  
MOBILE RGNL (MOB)

09071

## AIRPORT DIAGRAM

MONTGOMERY RGNL (DANNELLY FIELD)(MGM)  
MONTGOMERY, ALABAMA

## AIRPORT DIAGRAM

MONTGOMERY, ALABAMA  
MONTGOMERY RGNL (DANNELLY FIELD)(MGM)

09071

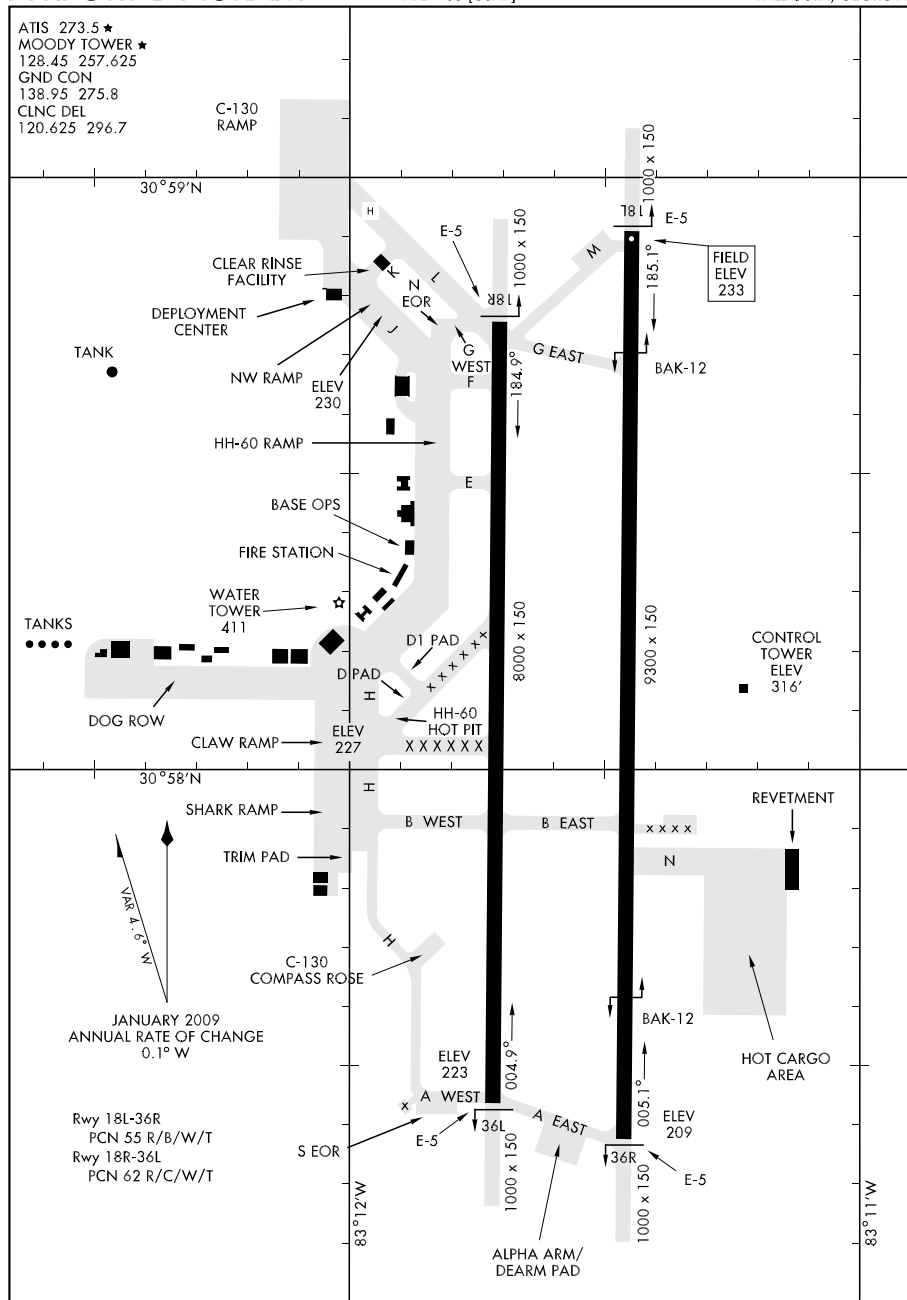
09015

## AIRPORT DIAGRAM

AFD-435 [USAF]

MOODY AFB (KVAD)

VALDOSTA, GEORGIA



## AIRPORT DIAGRAM

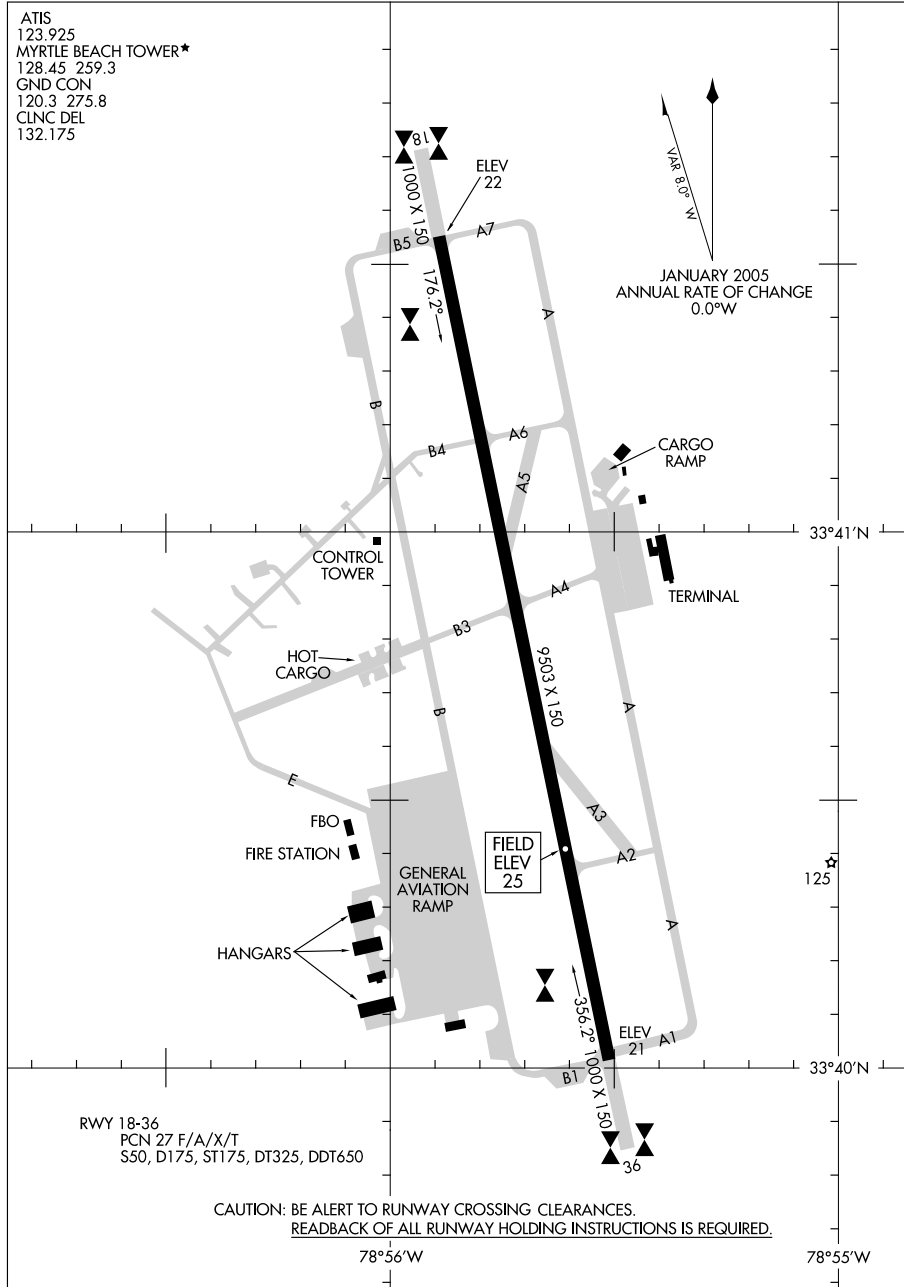
VALDOSTA, GEORGIA

MOODY AFB (KVAD)

09351

## AIRPORT DIAGRAM

AL-280 (FAA)

MYRTLE BEACH INTL (MYR)  
MYRTLE BEACH, SOUTH CAROLINA

## AIRPORT DIAGRAM

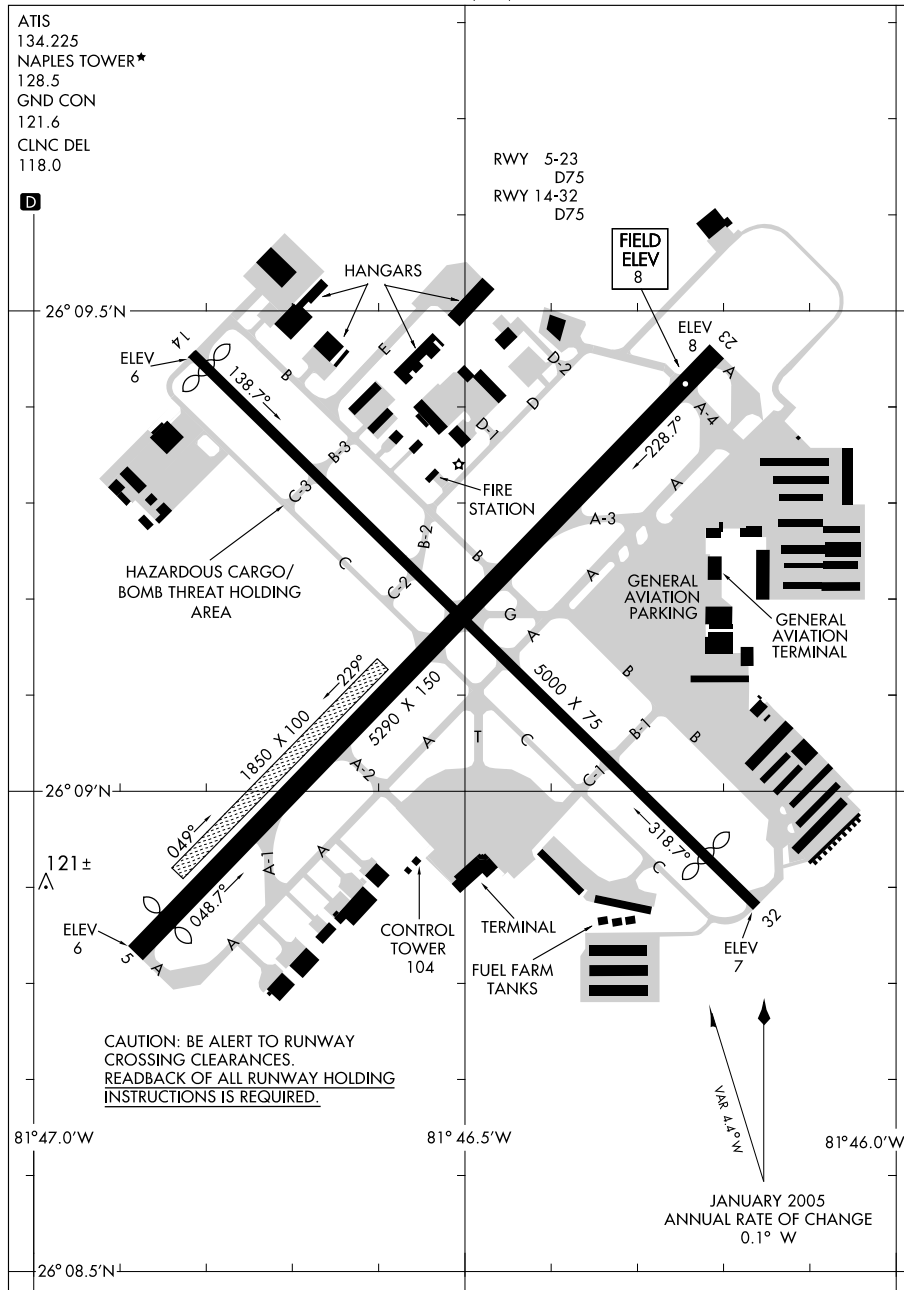
09351

MYRTLE BEACH, SOUTH CAROLINA  
MYRTLE BEACH INTL (MYR)

09127

## AIRPORT DIAGRAM

AL-6020 (FAA)

NAPLES MUNI (APF)  
NAPLES, FLORIDA

## AIRPORT DIAGRAM

09127

NAPLES, FLORIDA  
NAPLES MUNI (APF)

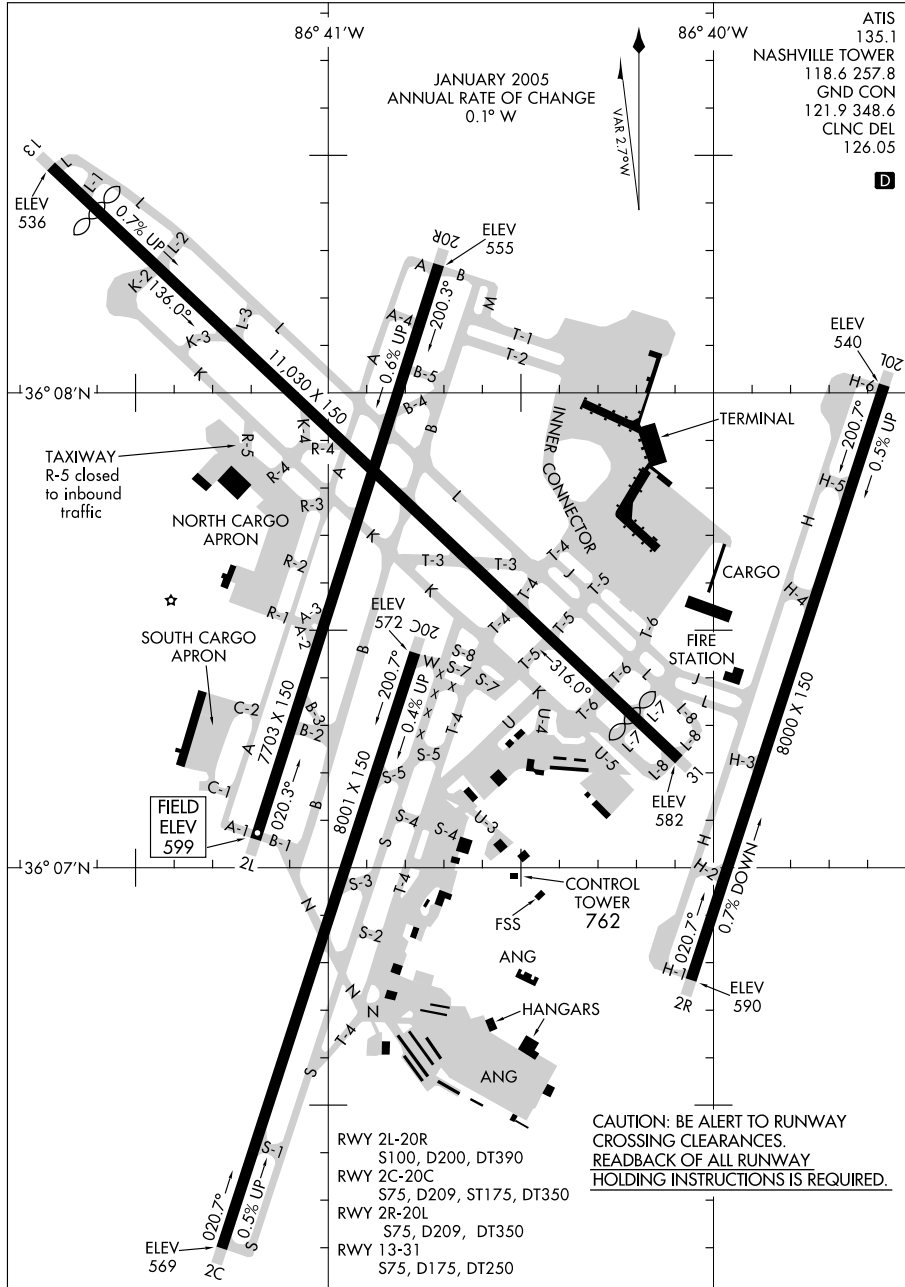


09183

# AIRPORT DIAGRAM

AL-282 (FAA)

NASHVILLE INTL (BNA)  
NASHVILLE, TENNESSEE



# AIRPORT DIAGRAM

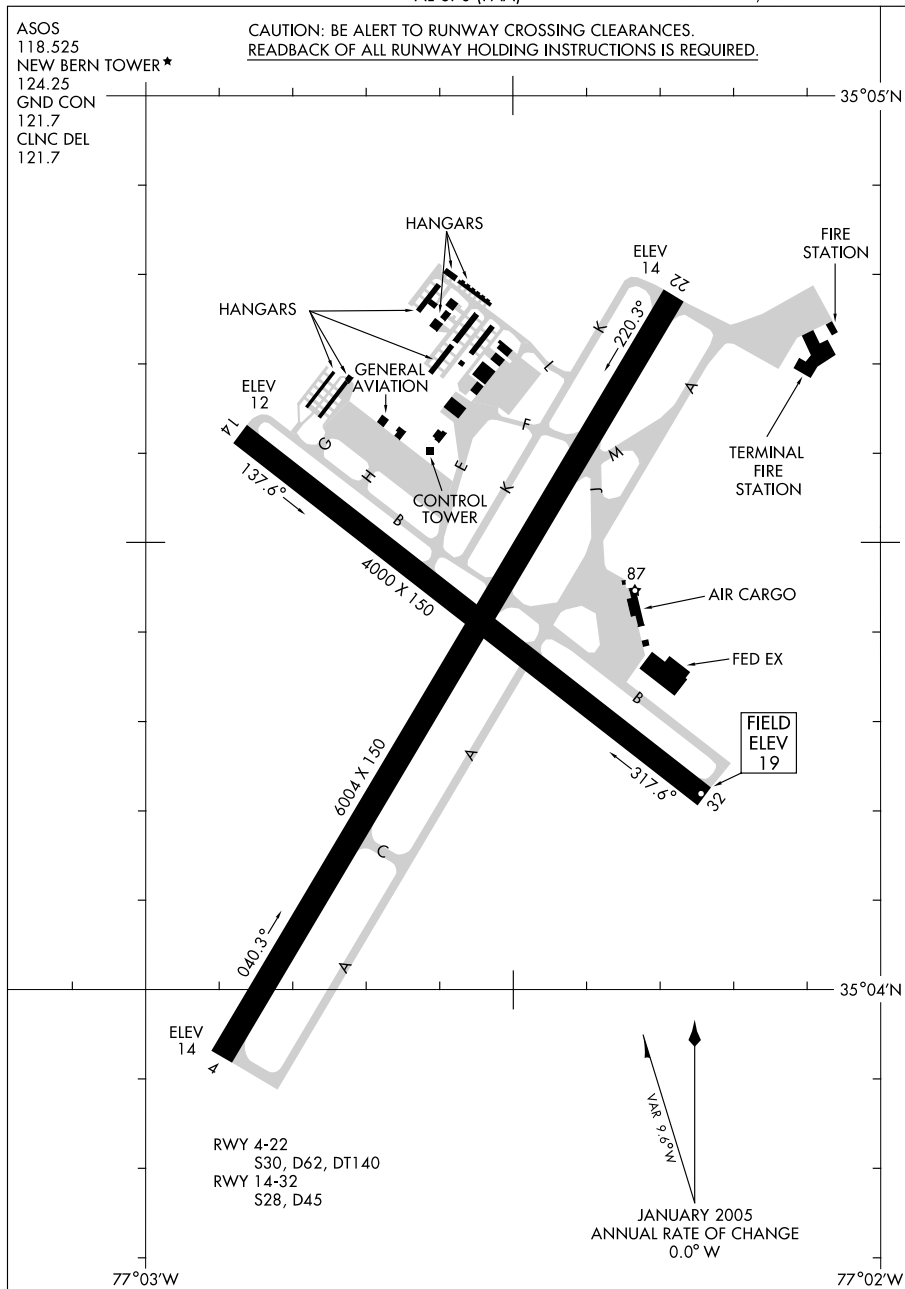
09183

NASHVILLE, TENNESSEE  
NASHVILLE INTL (BNA)

09183

## AIRPORT DIAGRAM

NEW BERN/COASTAL CAROLINA RGNL (EWN)  
AL-670 (FAA) NEW BERN, NORTH CAROLINA



## AIRPORT DIAGRAM

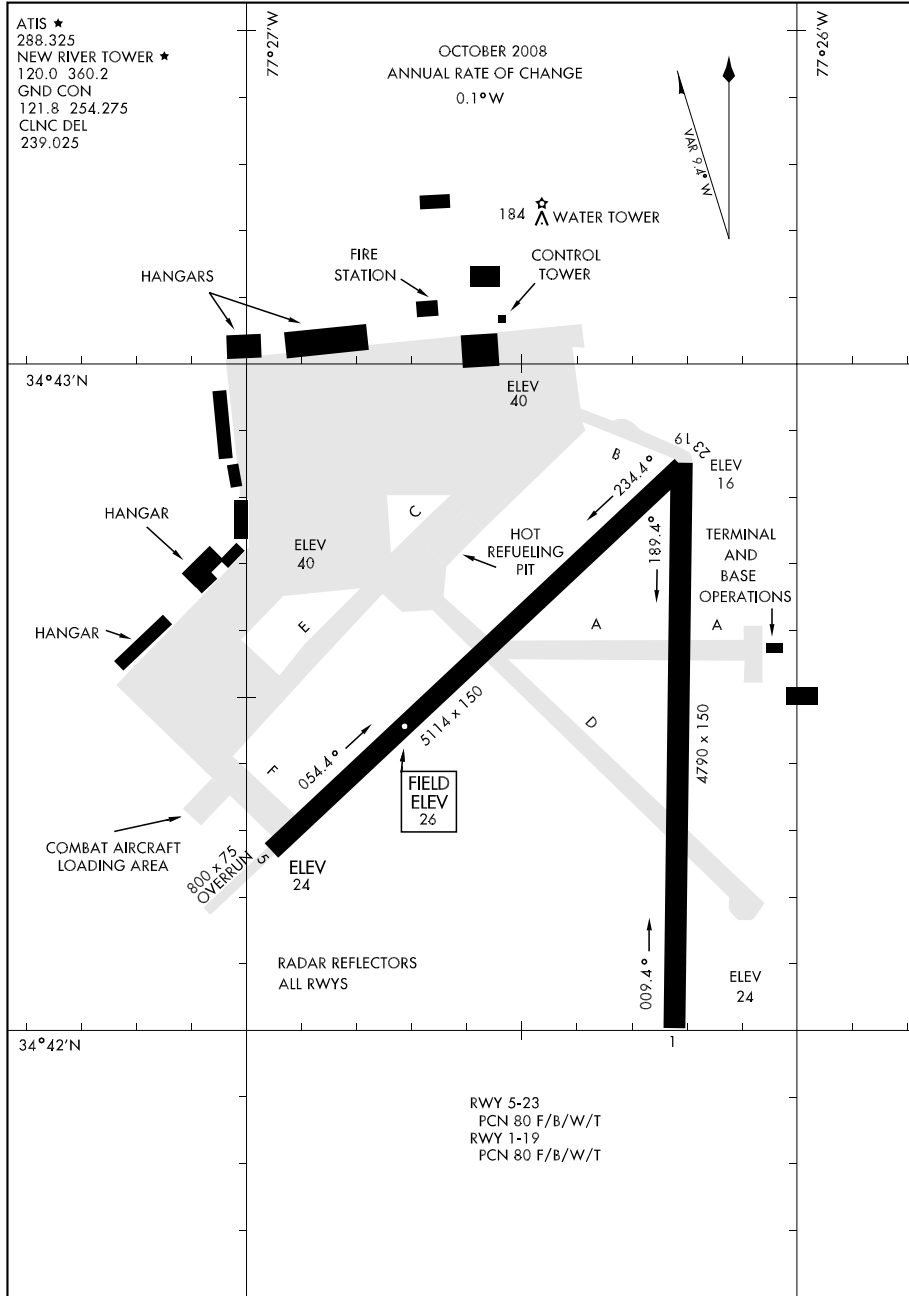
09183

NEW BERN, NORTH CAROLINA  
NEW BERN/COASTAL CAROLINA RGNL (EWN)

08325

## AIRPORT DIAGRAM

AFD-732 [USN]

NEW RIVER MCAS (KNCA)  
JACKSONVILLE, NORTH CAROLINA

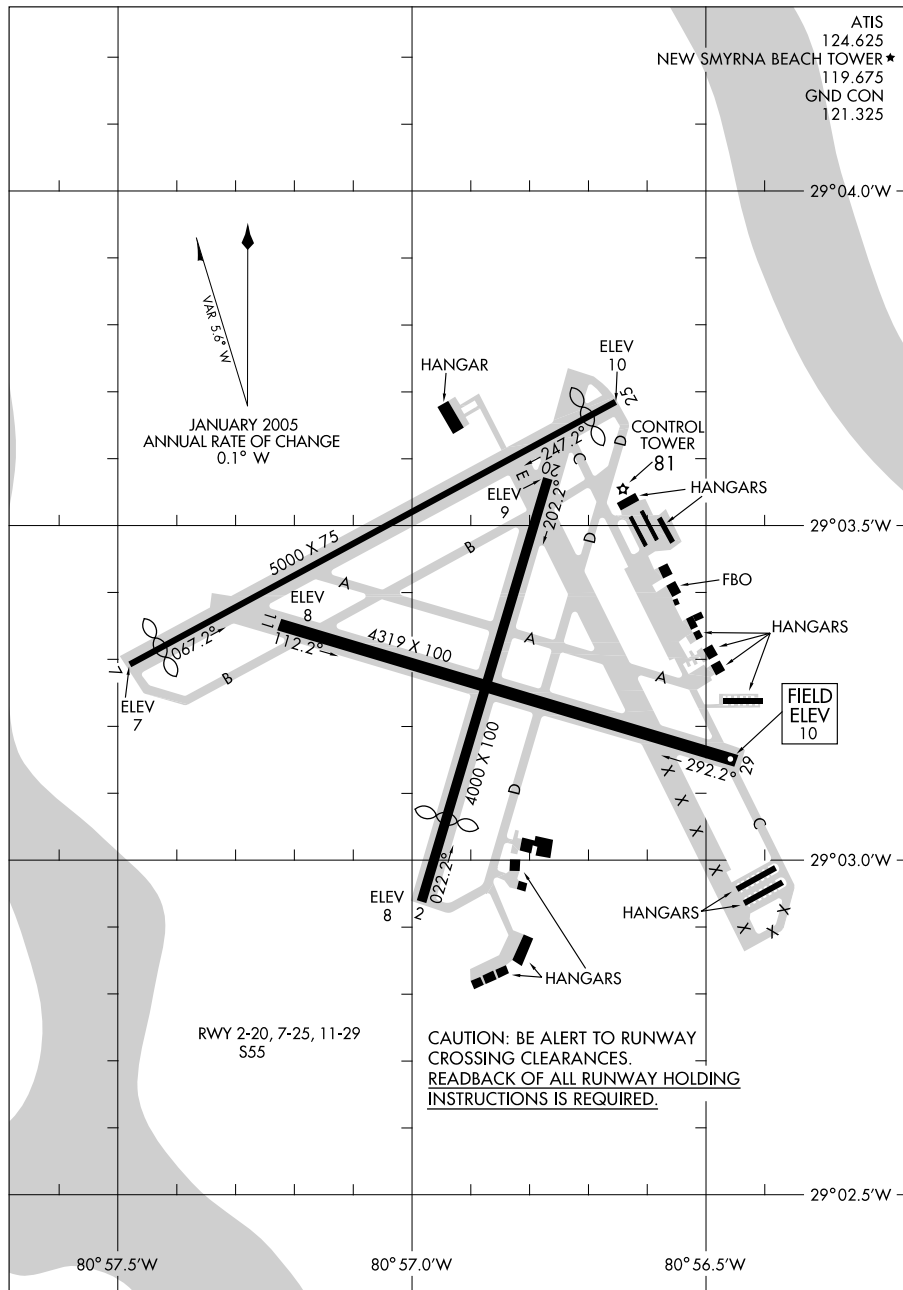
## AIRPORT DIAGRAM

JACKSONVILLE, NORTH CAROLINA  
NEW RIVER MCAS (KNCA)

09295

## AIRPORT DIAGRAM

AL-6459 (FAA)

NEW SMYRNA BEACH MUNI (EVB)  
NEW SMYRNA BEACH, FLORIDA

## AIRPORT DIAGRAM

09295

NEW SMYRNA BEACH, FLORIDA  
NEW SMYRNA BEACH MUNI (EVB)

08213

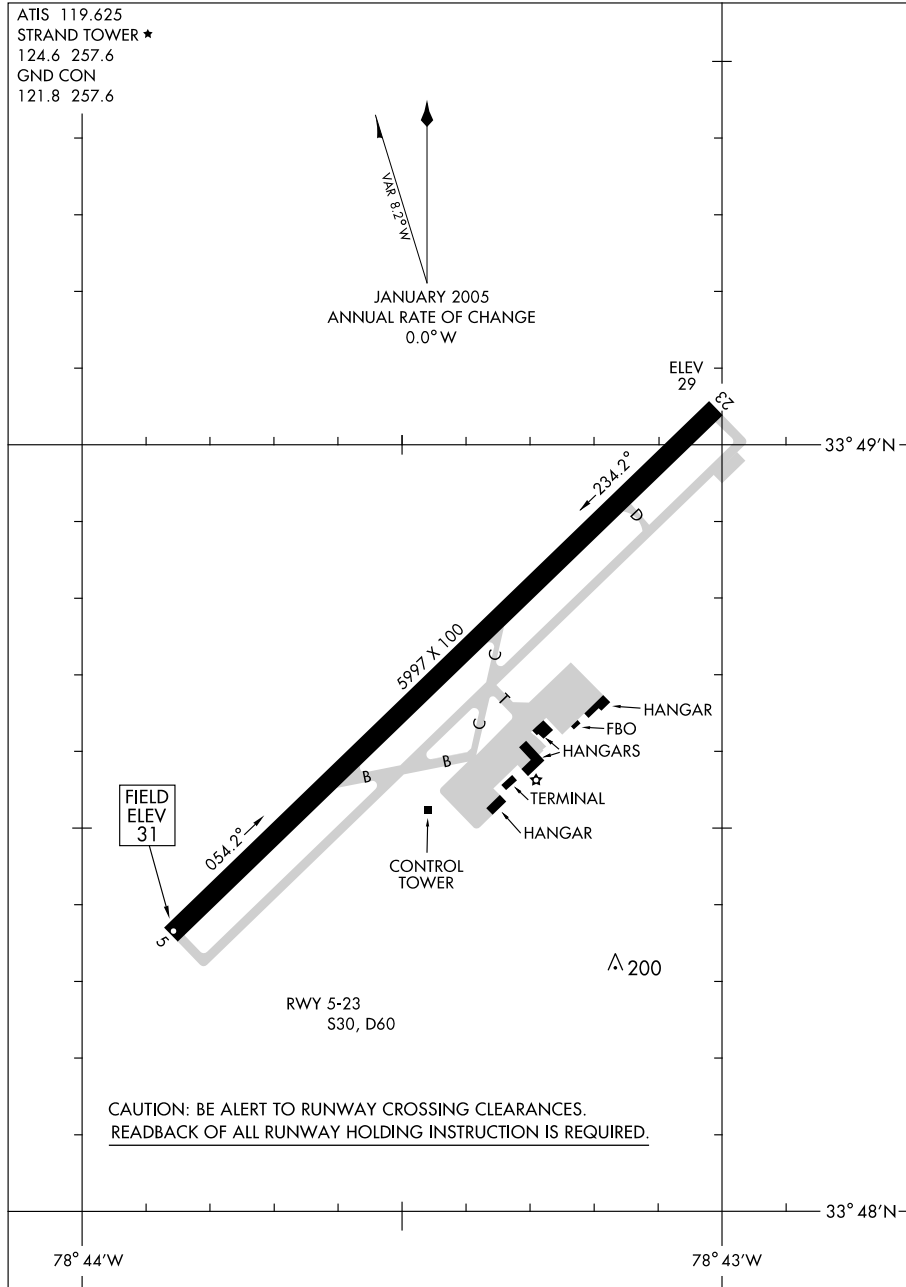
# AIRPORT DIAGRAM

NORTH MYRTLE BEACH/GRAND STRAND (CRE)

AL-5097 (FAA)

NORTH MYRTLE BEACH, SOUTH CAROLINA

ATIS 119.625  
STRAND TOWER ★  
124.6 257.6  
GND CON  
121.8 257.6



# AIRPORT DIAGRAM

33° 49' N - 78° 44' W

NORTH MYRTLE BEACH, SOUTH CAROLINA

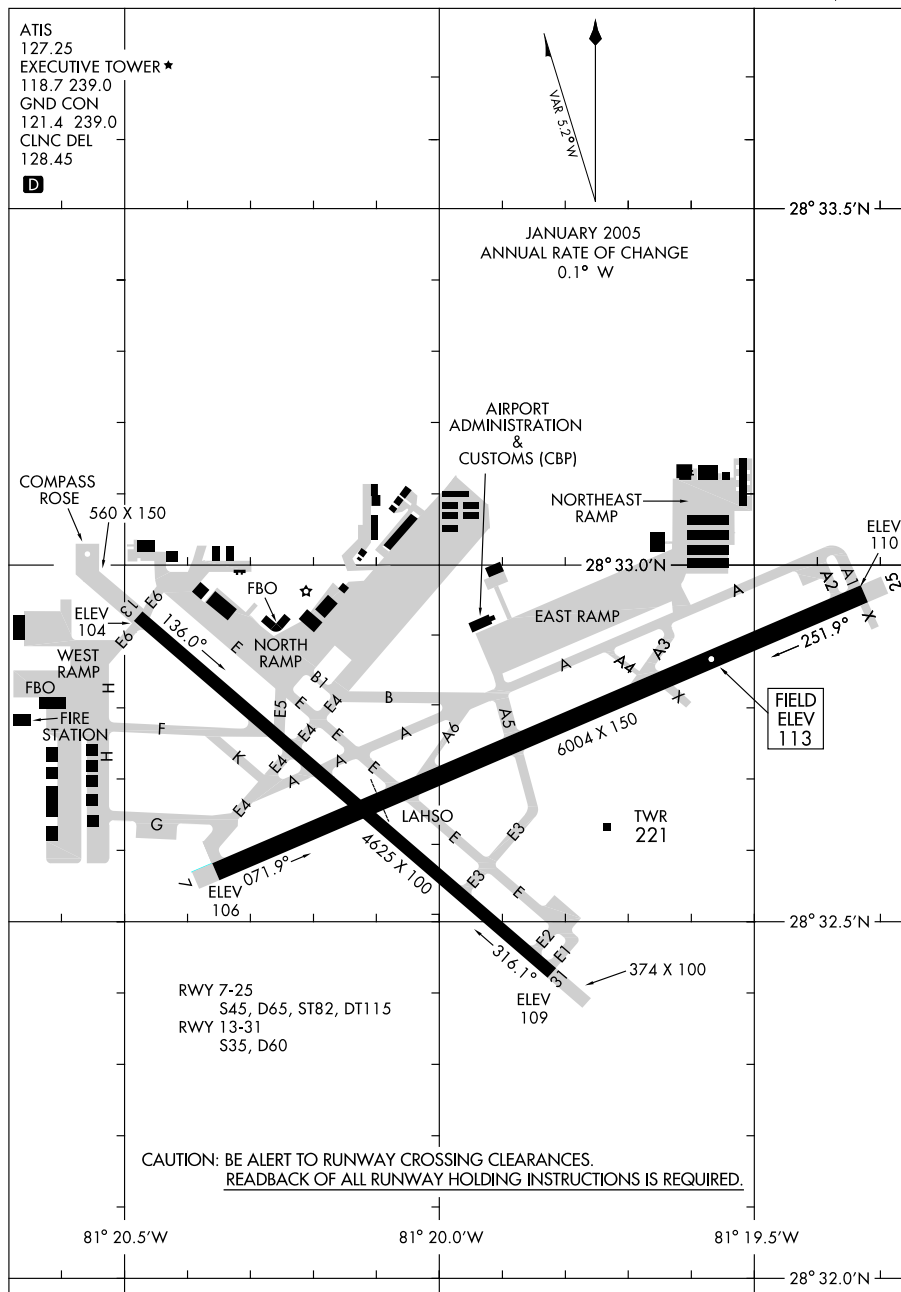
NORTH MYRTLE BEACH/GRAND STRAND (CRE)

08213

10042

## AIRPORT DIAGRAM

AL-305 (FAA)

ORLANDO/EXECUTIVE (ORL)  
ORLANDO, FLORIDA

## AIRPORT DIAGRAM

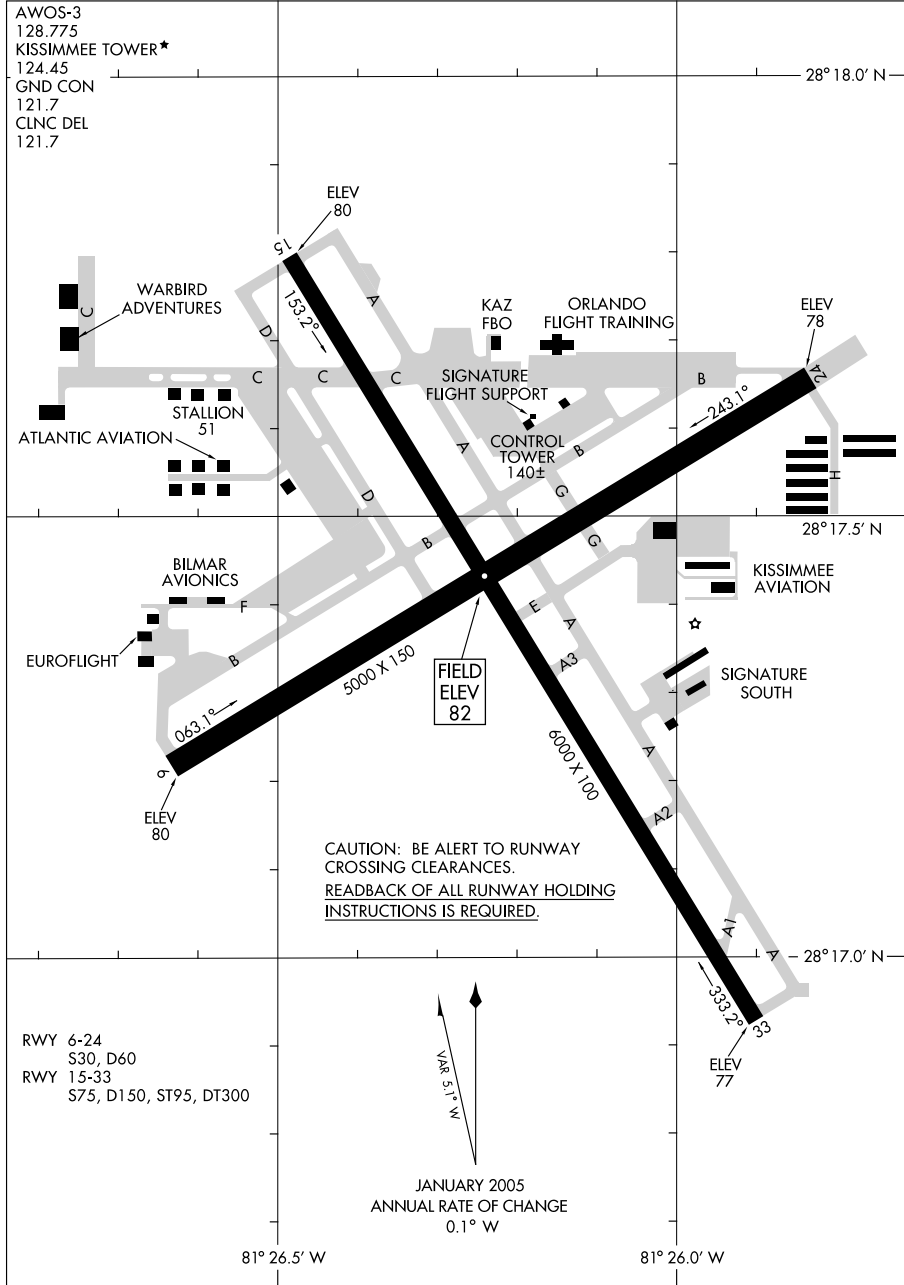
10042

ORLANDO, FLORIDA  
ORLANDO/EXECUTIVE (ORL)

10042

# AIRPORT DIAGRAM

ORLANDO/KISSIMMEE GATEWAY (ISM)  
AL-5793 (FAA)  
ORLANDO, FLORIDA



# AIRPORT DIAGRAM

10042

ORLANDO, FLORIDA  
ORLANDO/KISSIMMEE GATEWAY (ISM)







08157

## AIRPORT DIAGRAM

AL-5459 (FAA)

ORMOND BEACH MUNI (OMN)

ORMOND BEACH, FLORIDA

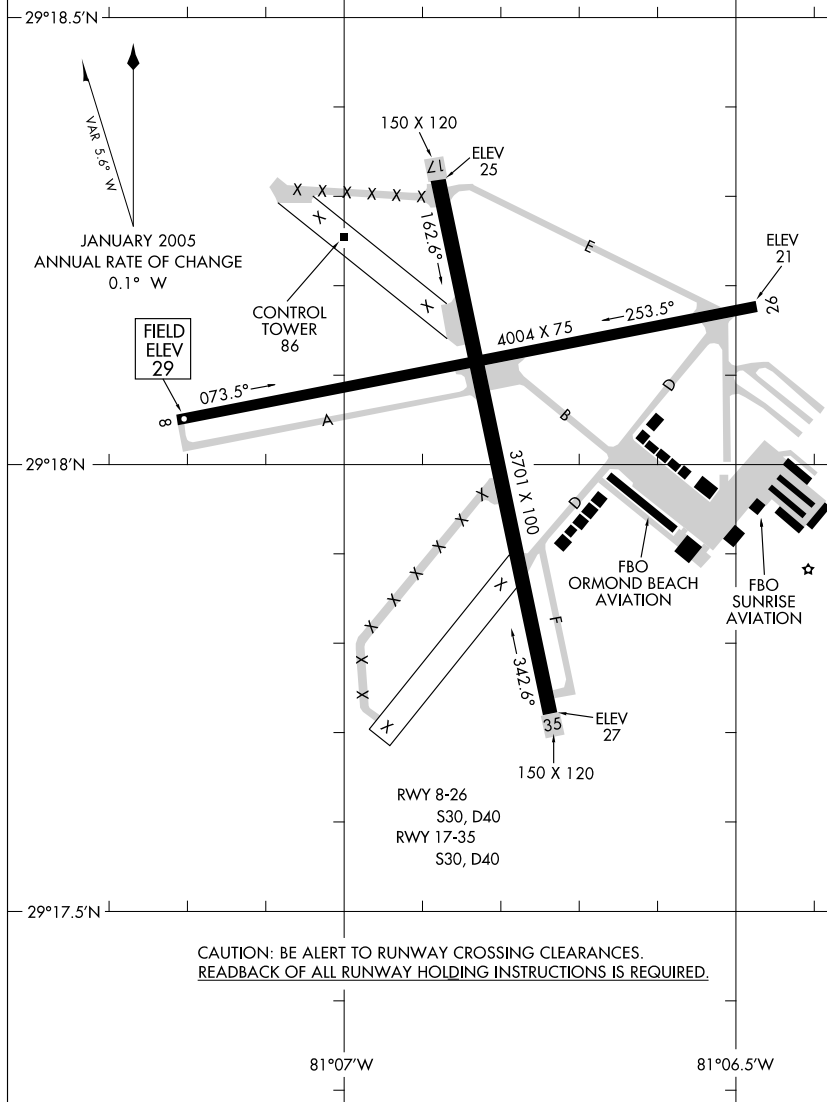
ATIS 118.475

ORMOND BEACH TOWER ★

119.075

GND CON 121.625

CLNC DEL 121.625



## AIRPORT DIAGRAM

08157

ORMOND BEACH, FLORIDA

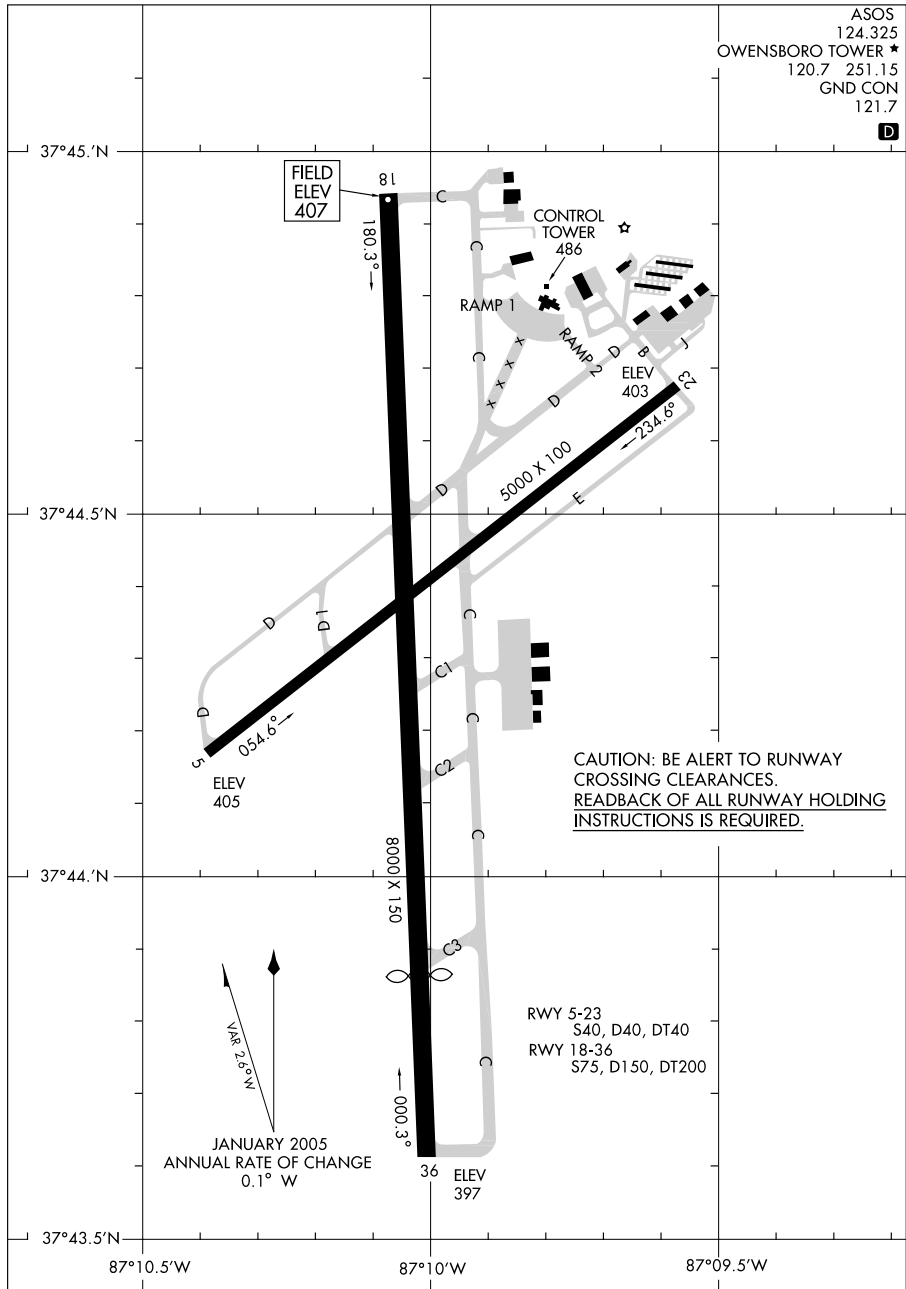
ORMOND BEACH MUNI (OMN)

09071

# AIRPORT DIAGRAM

AL-707 (FAA)

OWENSBORO-DAVIESS COUNTY (OWB)  
OWENSBORO, KENTUCKY



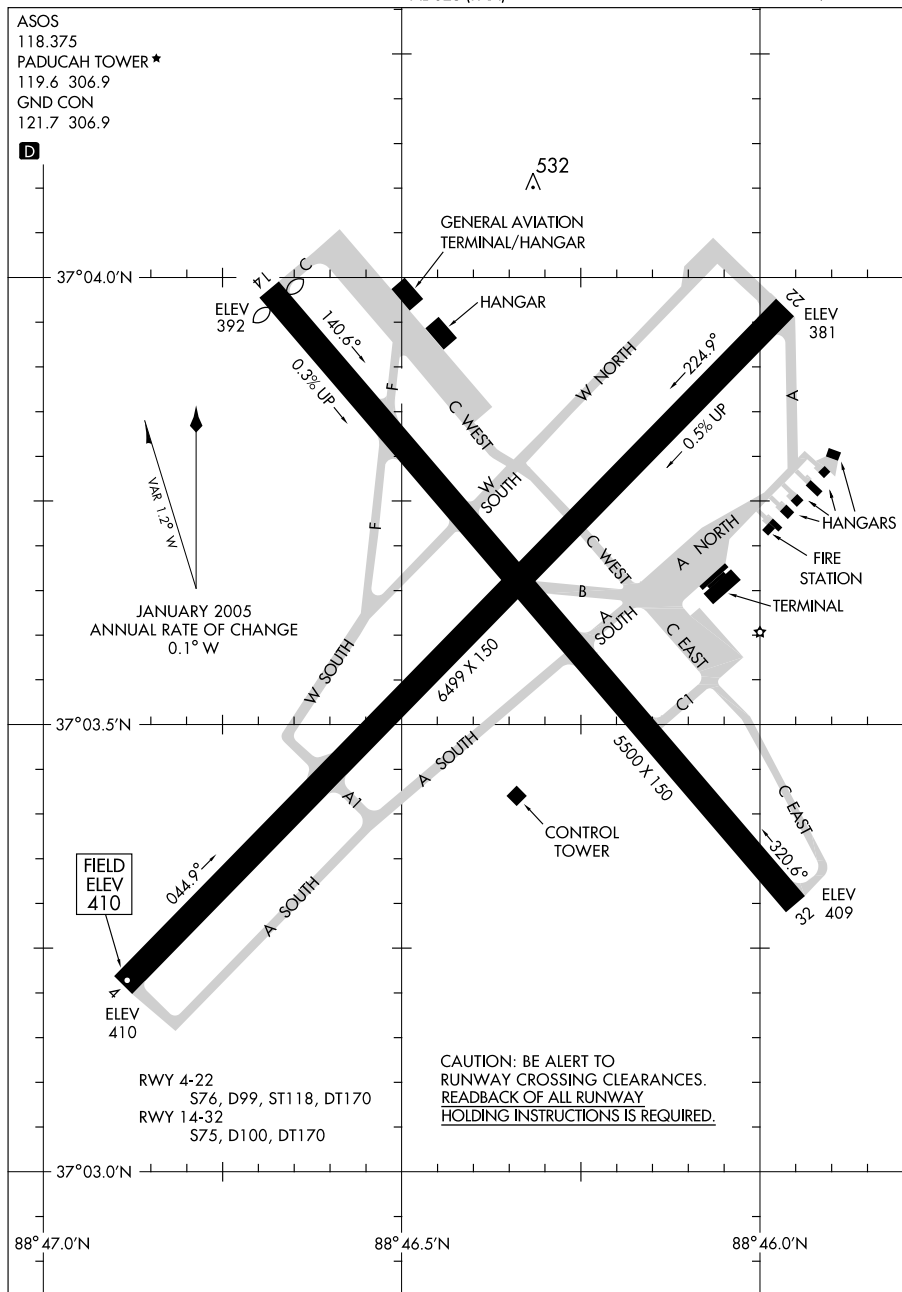
# AIRPORT DIAGRAM

09071

OWENSBORO, KENTUCKY  
OWENSBORO-DAVIESS COUNTY (OWB)

09071

## AIRPORT DIAGRAM

PADUCAH/BARKLEY RGNL (PAH)  
PADUCAH, KENTUCKY

## AIRPORT DIAGRAM

09071

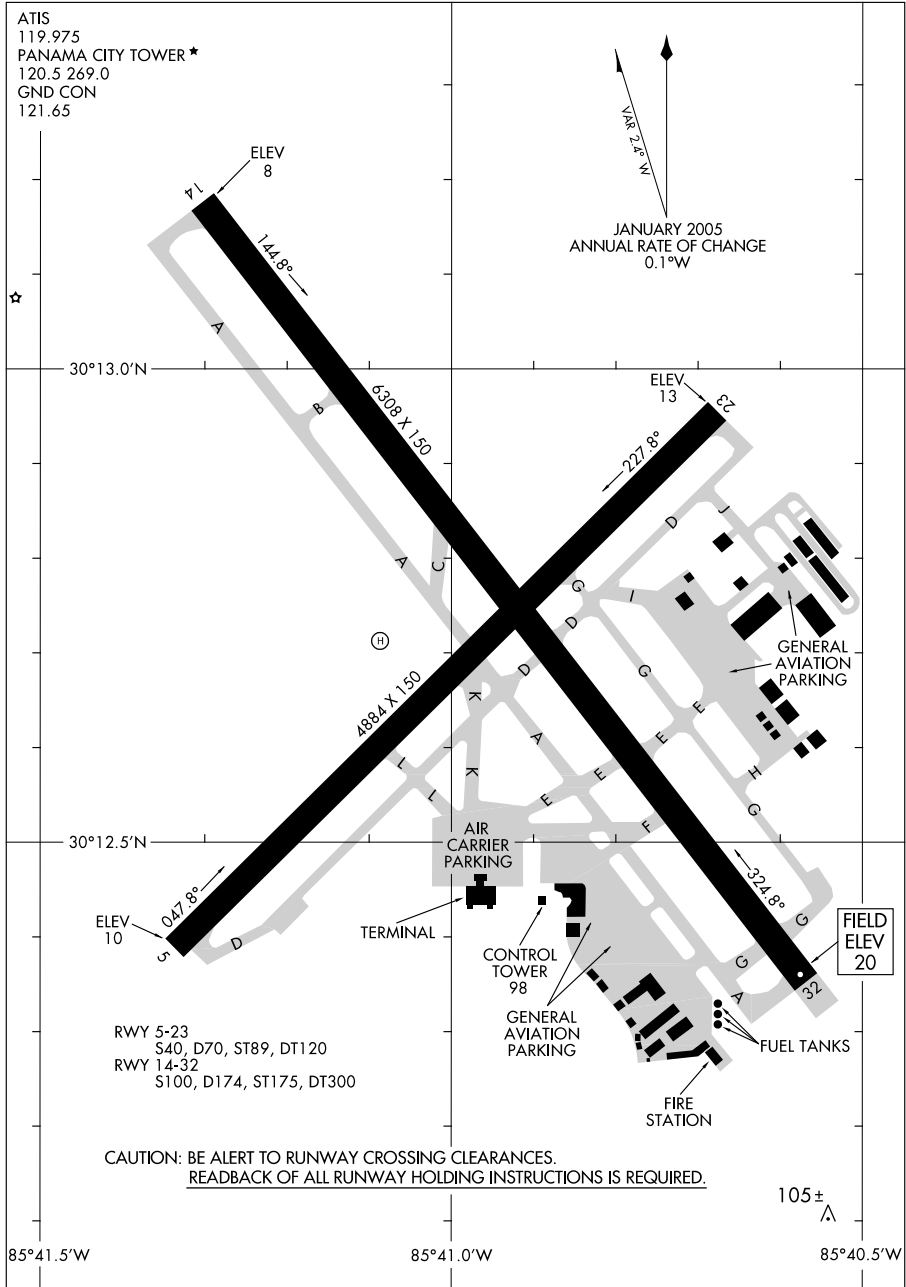
PADUCAH, KENTUCKY  
PADUCAH/BARKLEY RGNL (PAH)

09183

## AIRPORT DIAGRAM

PANAMA CITY-BAY COUNTY INTL (PFN)  
PANAMA CITY, FLORIDA

AL-695 (FAA)



## AIRPORT DIAGRAM

09183

PANAMA CITY, FLORIDA  
PANAMA CITY-BAY COUNTY INTL (PFN)

10098

## AIRPORT DIAGRAM

PANAMA CITY/NORTHWEST FLORIDA - PANAMA CITY INTL (ECP)  
AL-10416 (FAA)  
PANAMA CITY, FLORIDA

ATIS

119.975

PANAMA CITY TOWER ★

118.95

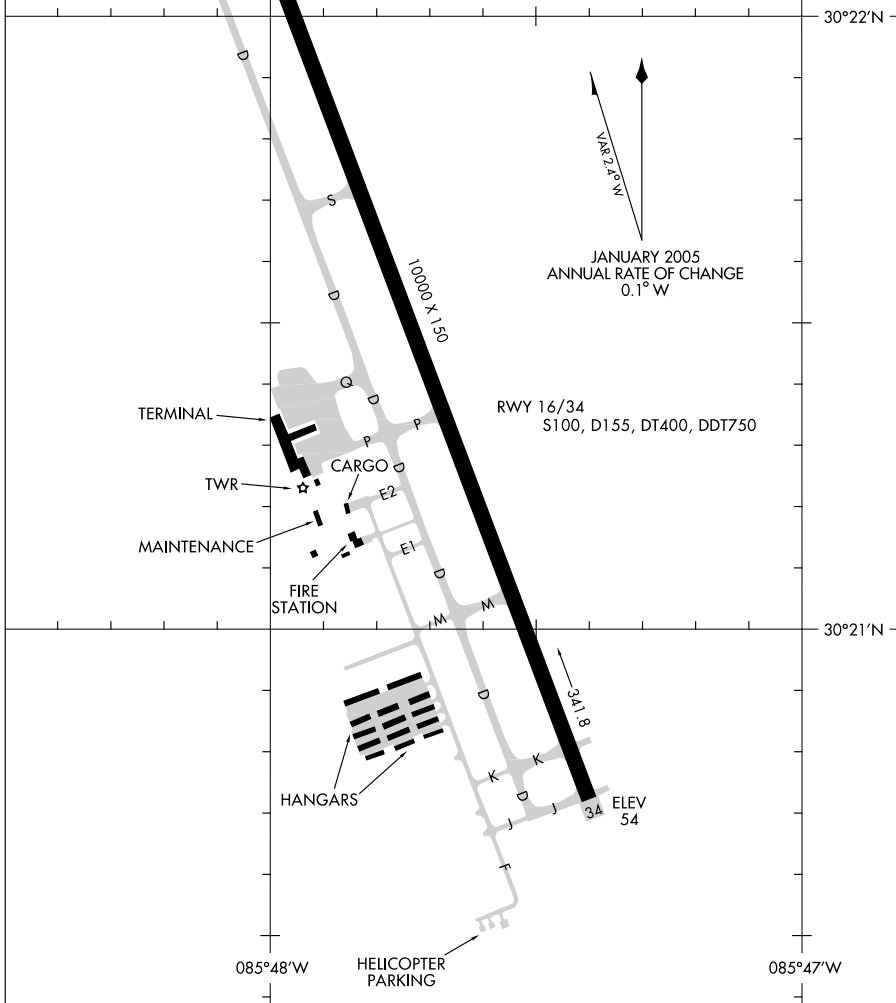
GND CON

121.65

D

FIELD  
ELEV  
69

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
READBCK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



## AIRPORT DIAGRAM

10098

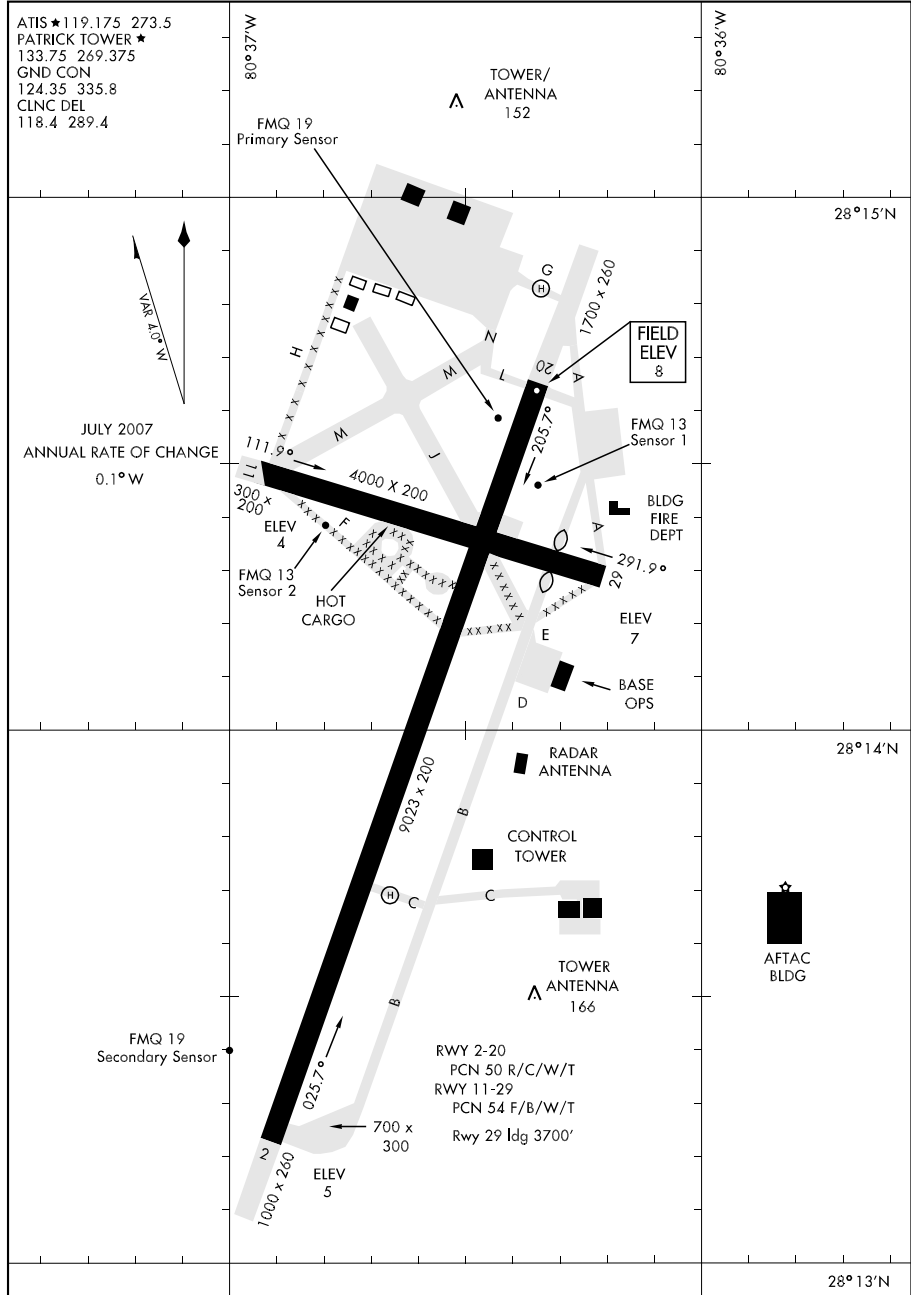
PANAMA CITY, FLORIDA  
PANAMA CITY/NORTHWEST FLORIDA - PANAMA CITY INTL (ECP)

07186

# AIRPORT DIAGRAM

AFD-38 [USAF]

PATRICK AFB (KCOF)  
COCOA BEACH, FLORIDA



# AIRPORT DIAGRAM

COCOA BEACH, FLORIDA  
PATRICK AFB (KCOF)

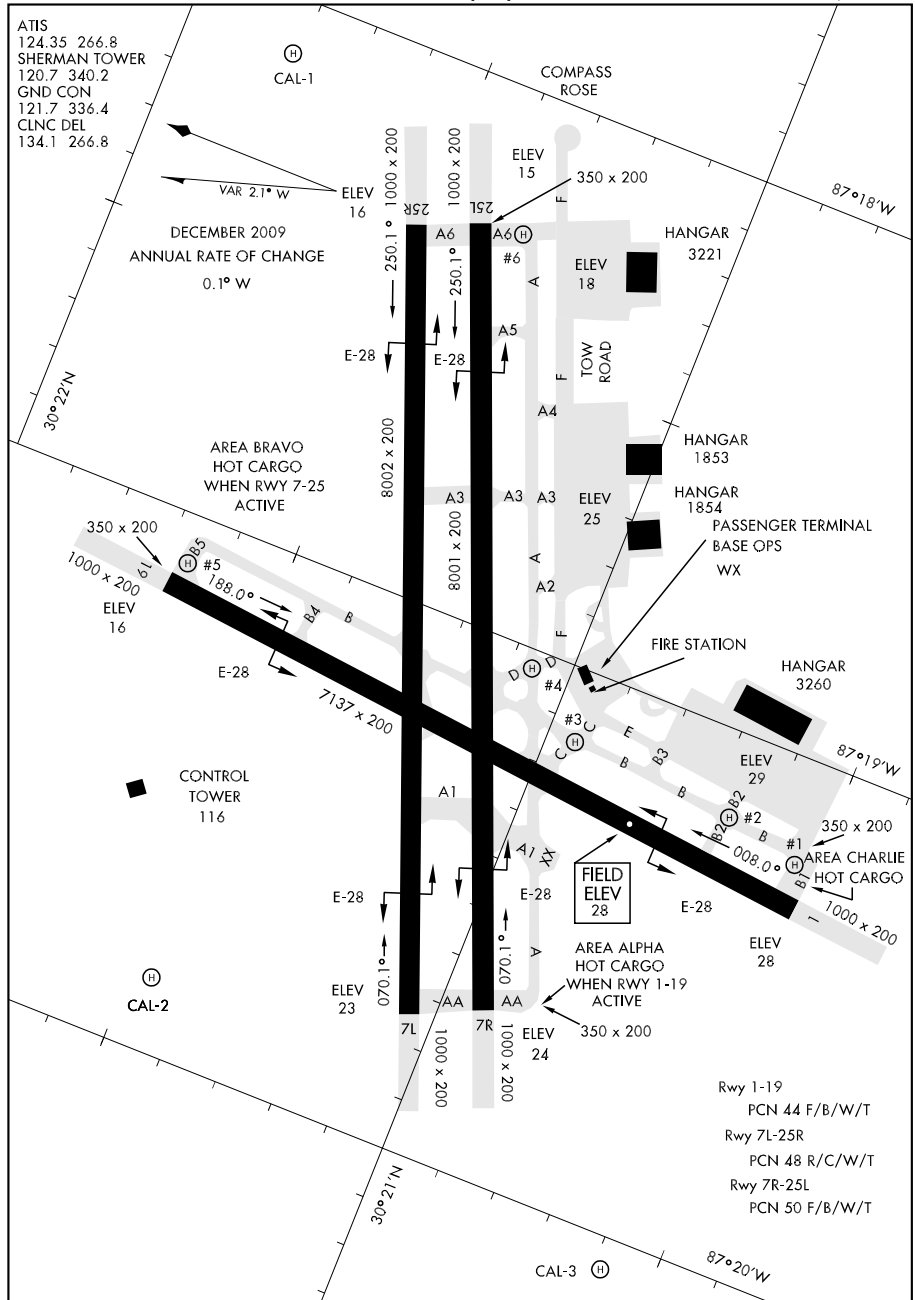
09351

PENSACOLA NAS (FORREST SHERMAN FLD) (KNPA)

## AIRPORT DIAGRAM

AFD-736 [USN]

PENSACOLA, FLORIDA



## AIRPORT DIAGRAM

PENSACOLA, FLORIDA

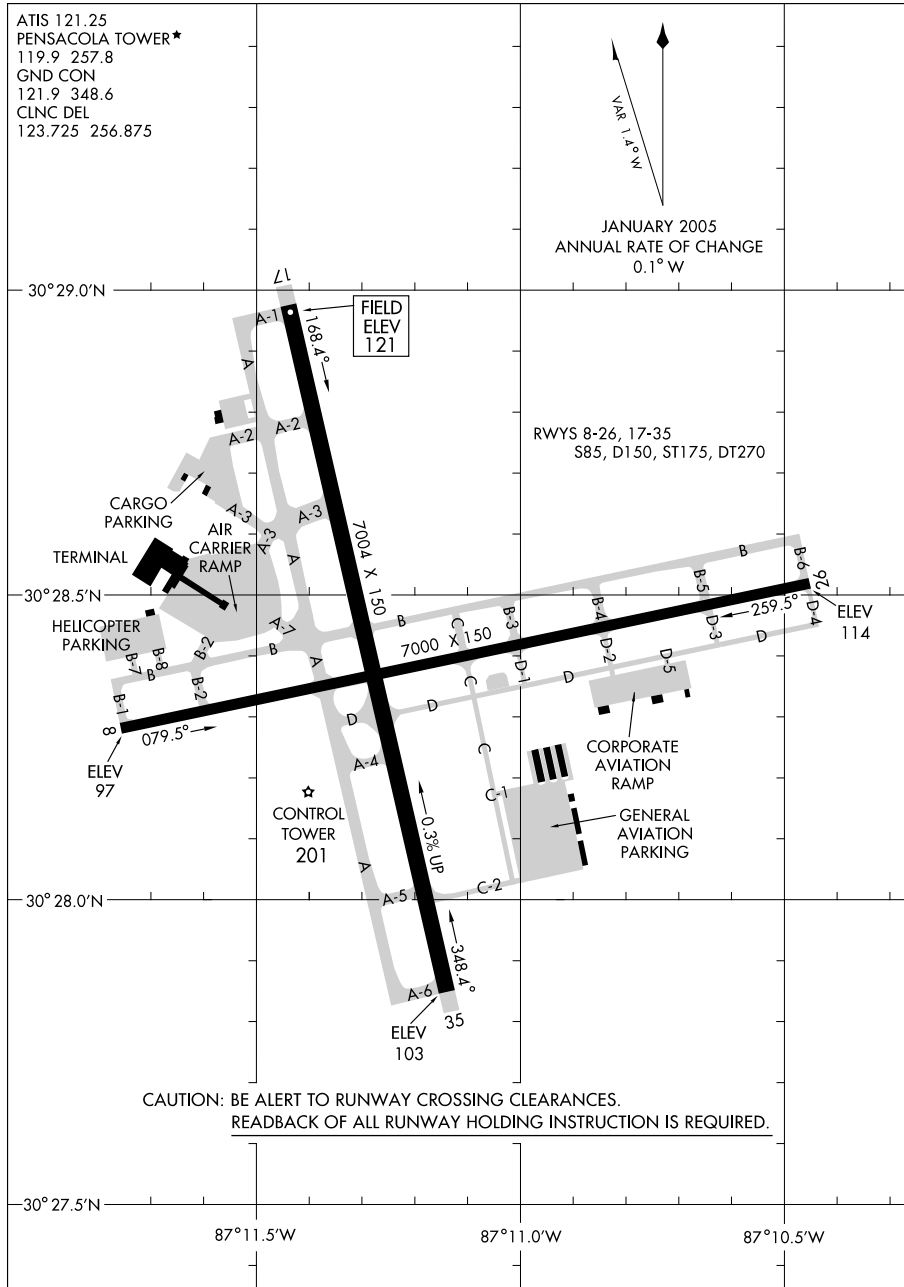
PENSACOLA NAS (FORREST SHERMAN FLD) (KNPA)



07354

## AIRPORT DIAGRAM

AL-318 (FAA)

PENSACOLA RGNL (PNS)  
PENSACOLA, FLORIDA

## AIRPORT DIAGRAM

07354

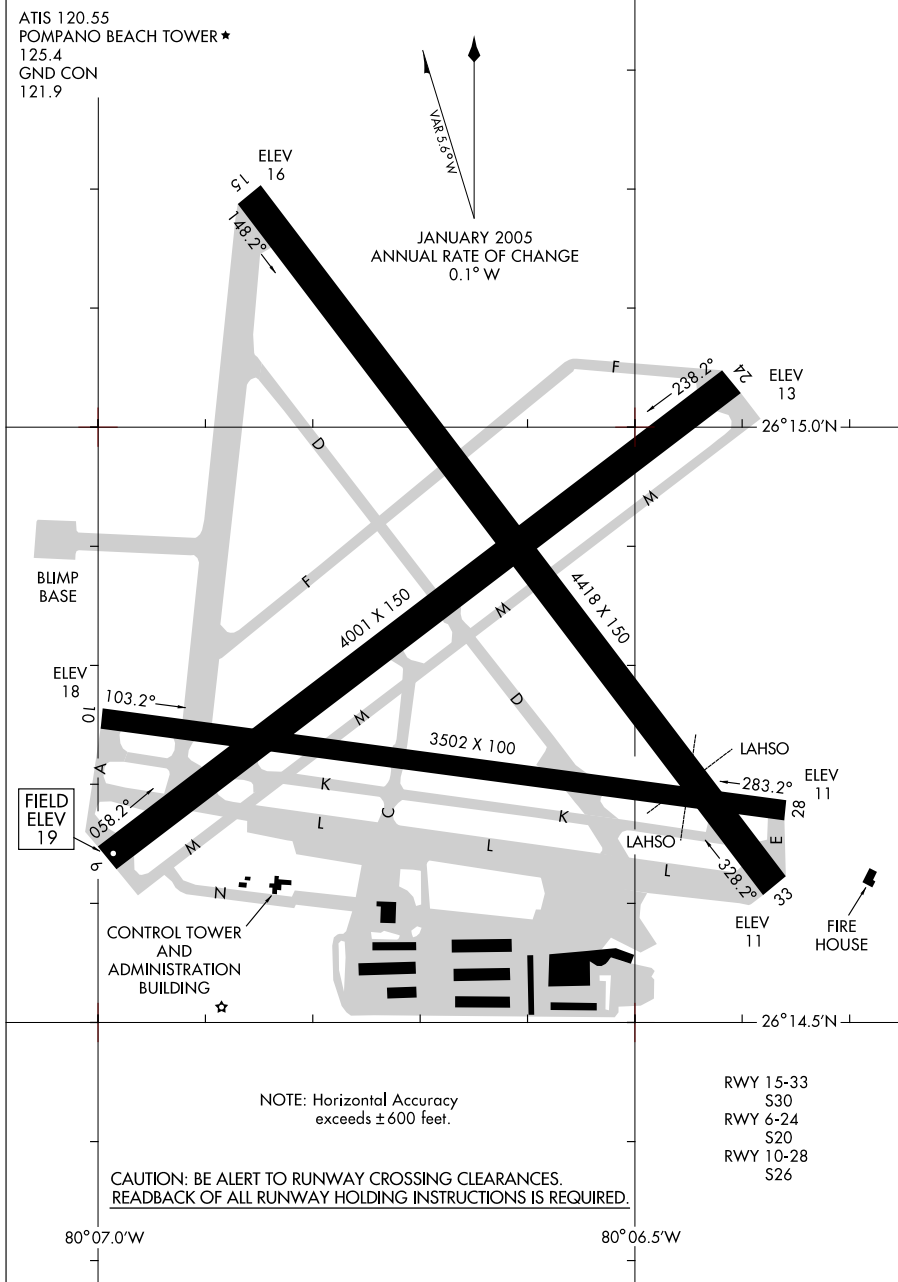
PENSACOLA, FLORIDA  
PENSACOLA RGNL (PNS)

06215

## AIRPORT DIAGRAM

POMPAN0 BEACH AIRPARK (PMP)  
POMPAN0 BEACH, FLORIDA

AL-5972 (FAA)



## AIRPORT DIAGRAM

POMPAN0 BEACH, FLORIDA  
POMPAN0 BEACH AIRPARK (PMP)

06215





09239

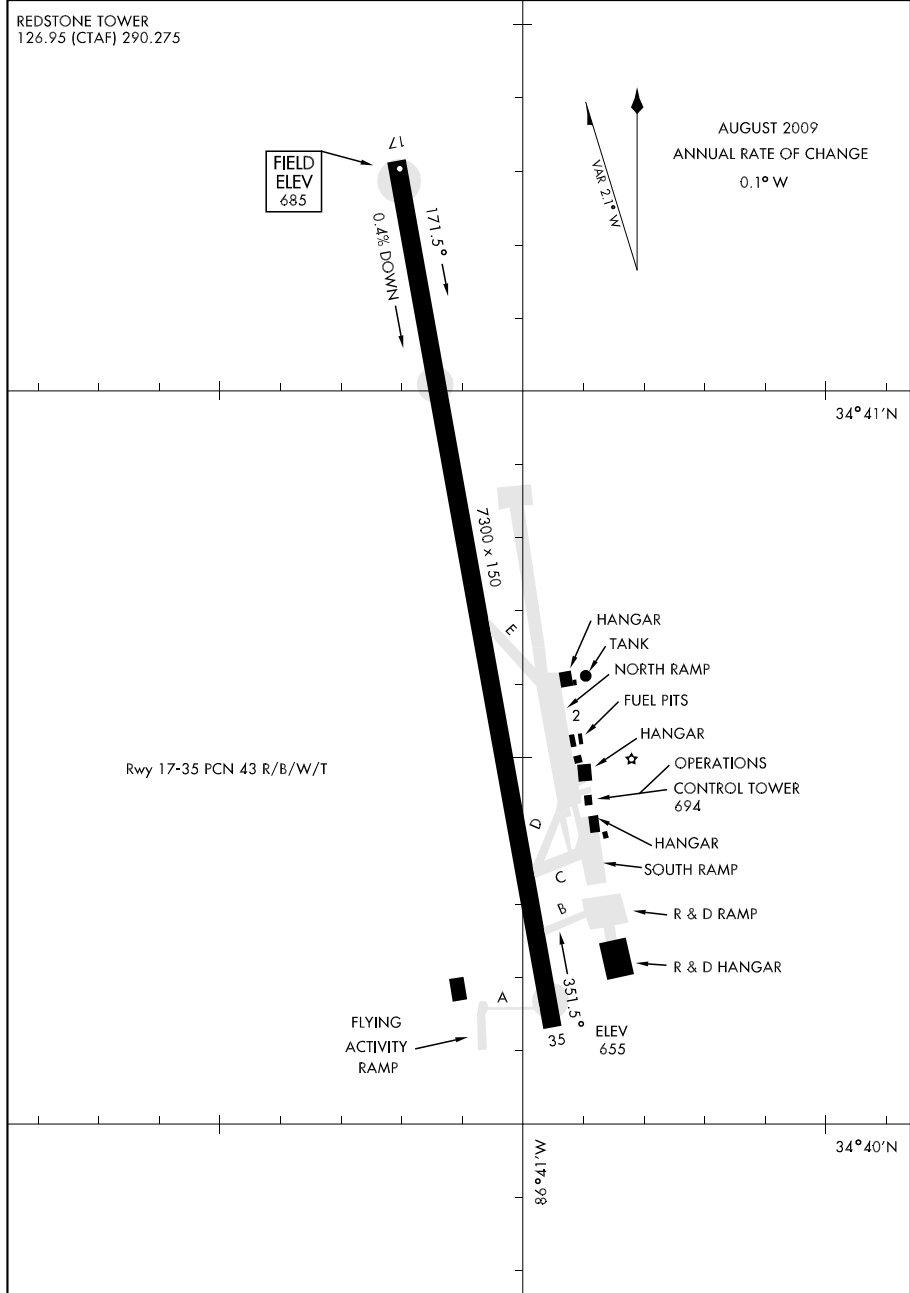
# AIRPORT DIAGRAM

AFD-703 [USA]

REDSTONE AAF (KHUA)

REDSTONE ARSENAL, ALABAMA

REDSTONE TOWER  
126.95 (CTAF) 290.275



# AIRPORT DIAGRAM

REDSTONE ARSENAL, ALABAMA

REDSTONE AAF (KHUA)

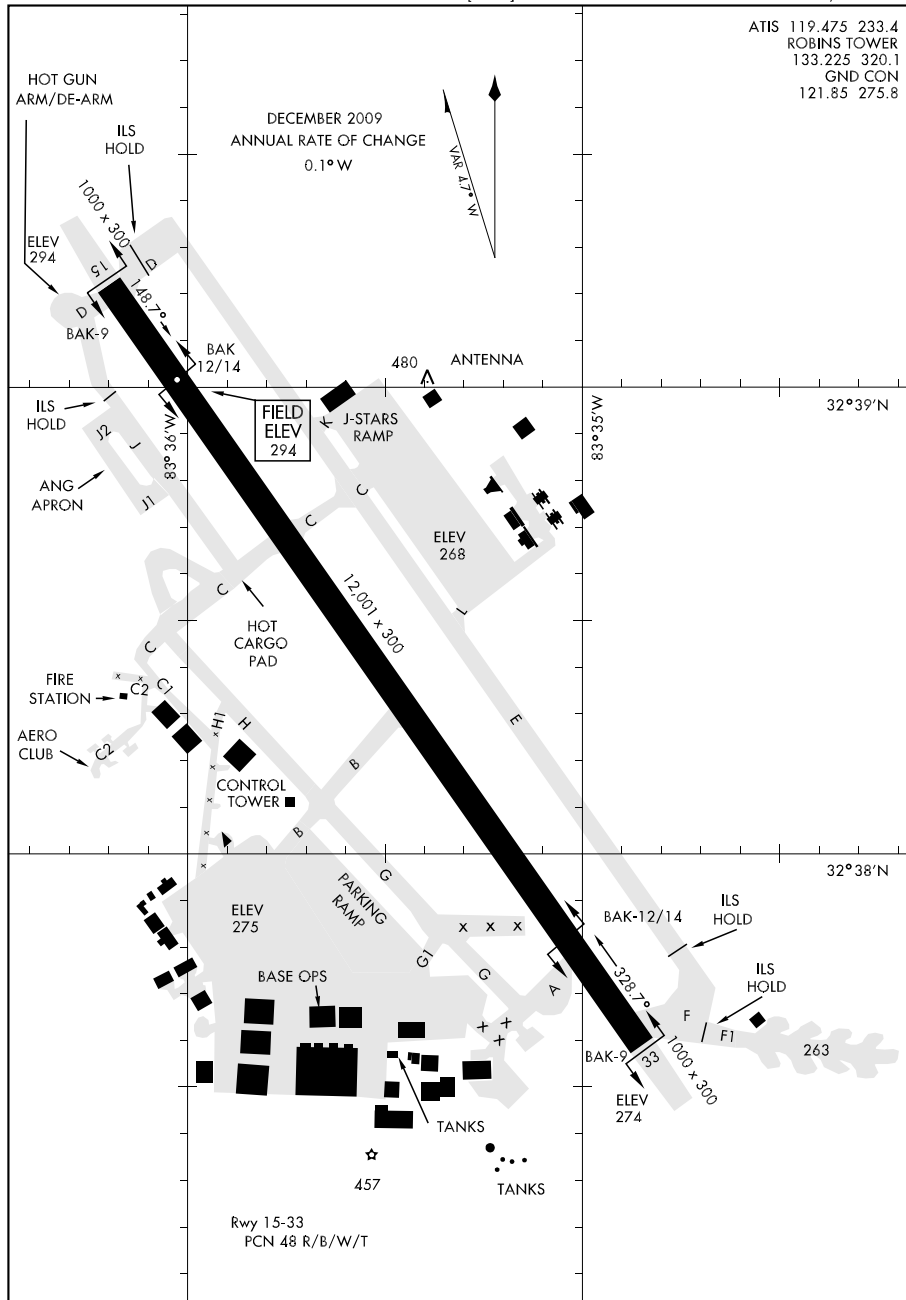
09351

## AIRPORT DIAGRAM

AFD-442 [USAF]

ROBINS AFB (KWRB)

WARNER ROBINS, GEORGIA



## AIRPORT DIAGRAM

WARNER ROBINS, GEORGIA

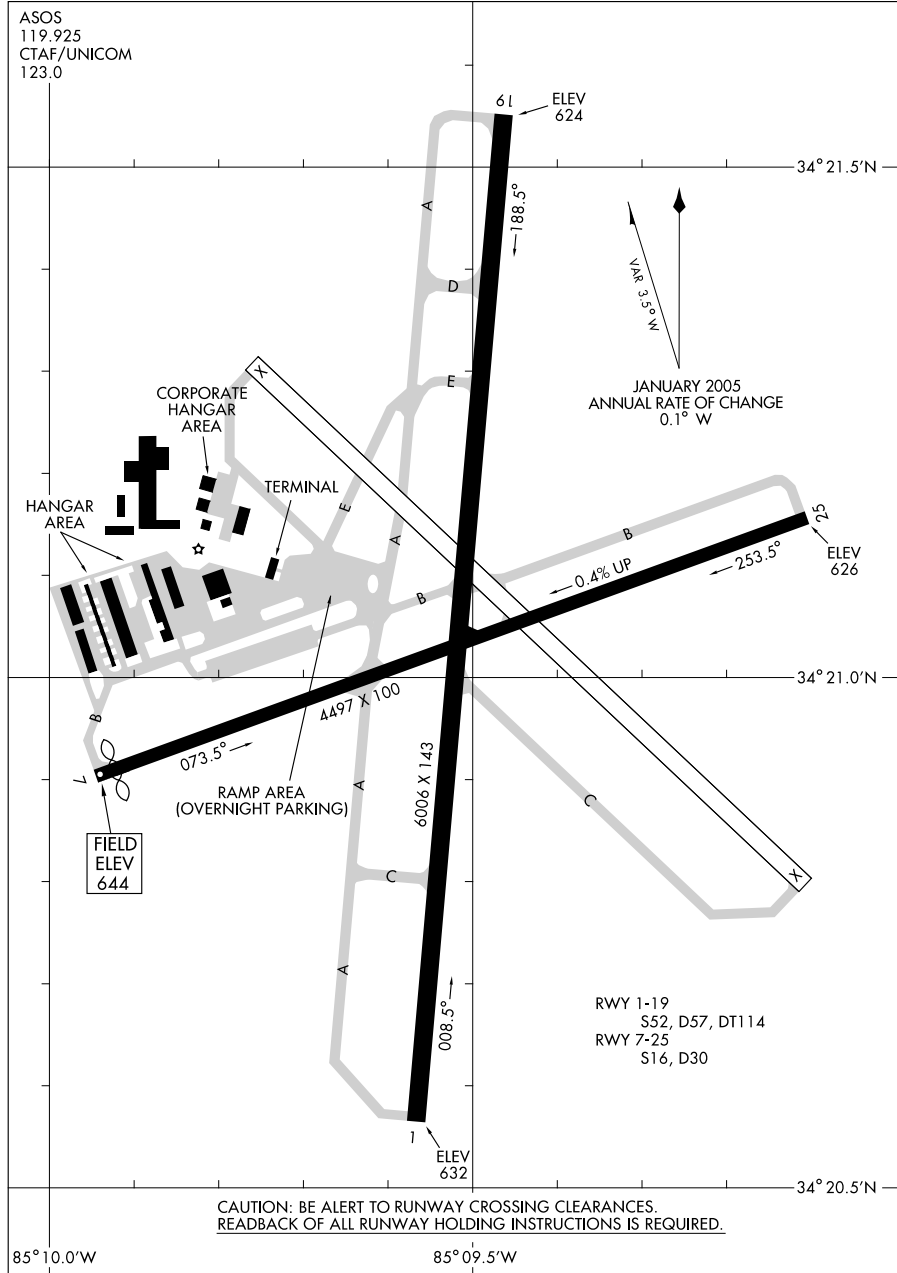
ROBINS AFB (KWRB)

09071

# AIRPORT DIAGRAM

AL-855 (FAA)

ROME/ RICHARD B. RUSSELL (RMG)  
ROME, GEORGIA



# AIRPORT DIAGRAM

09071

ROME, GEORGIA  
ROME/ RICHARD B. RUSSELL (RMG)

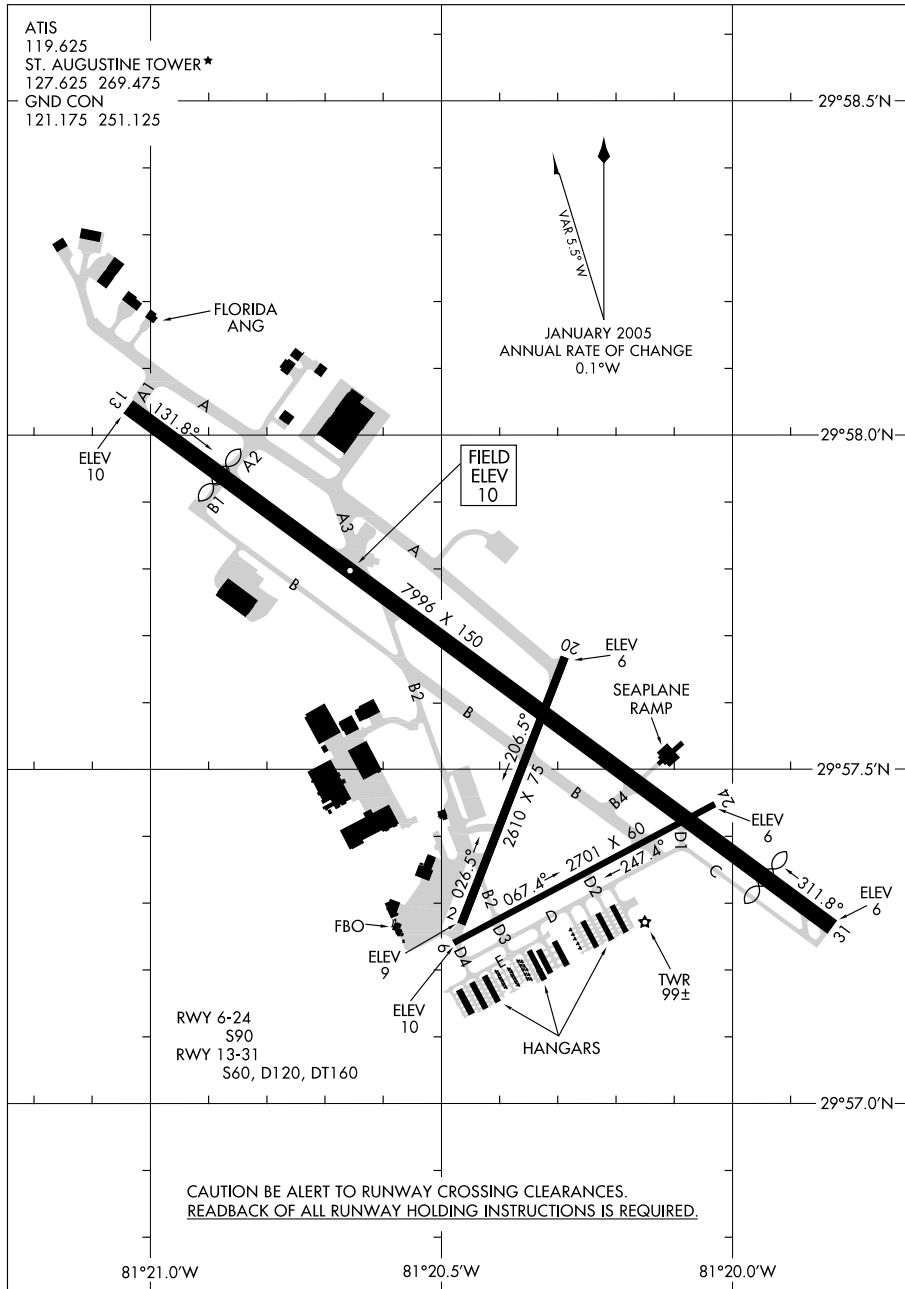




10042

## AIRPORT DIAGRAM

AL-692 (FAA)

ST. AUGUSTINE (SGJ)  
ST. AUGUSTINE, FLORIDA

## AIRPORT DIAGRAM

10042

ST. AUGUSTINE, FLORIDA  
ST. AUGUSTINE (SGJ)

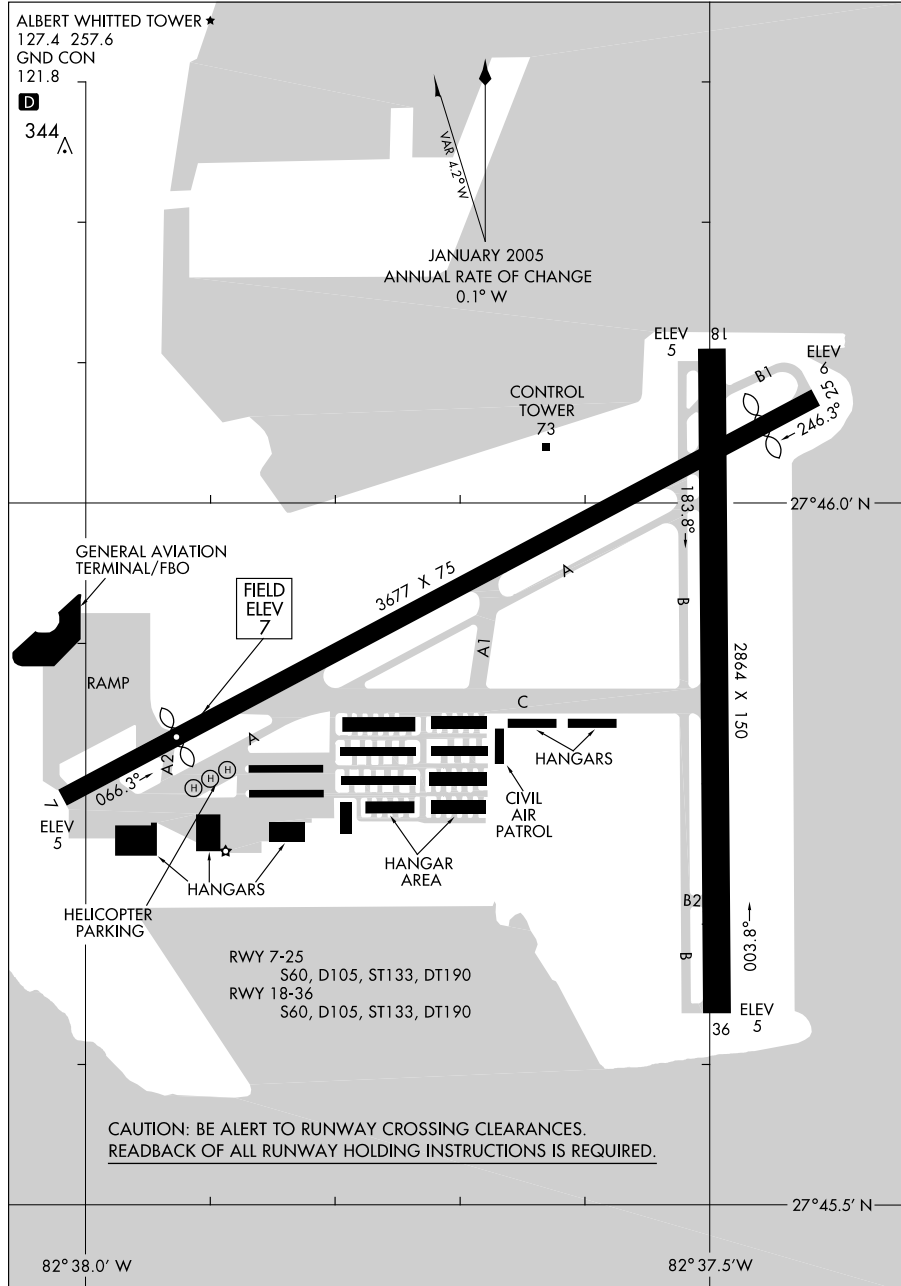
09015

## AIRPORT DIAGRAM

AL-613 (FAA)

ST. PETERSBURG/ALBERT WHITTED (SPG)

ST. PETERSBURG, FLORIDA



## AIRPORT DIAGRAM

09015

ST. PETERSBURG, FLORIDA  
ST. PETERSBURG/ALBERT WHITTED (SPG)

# AIRPORT DIAGRAM

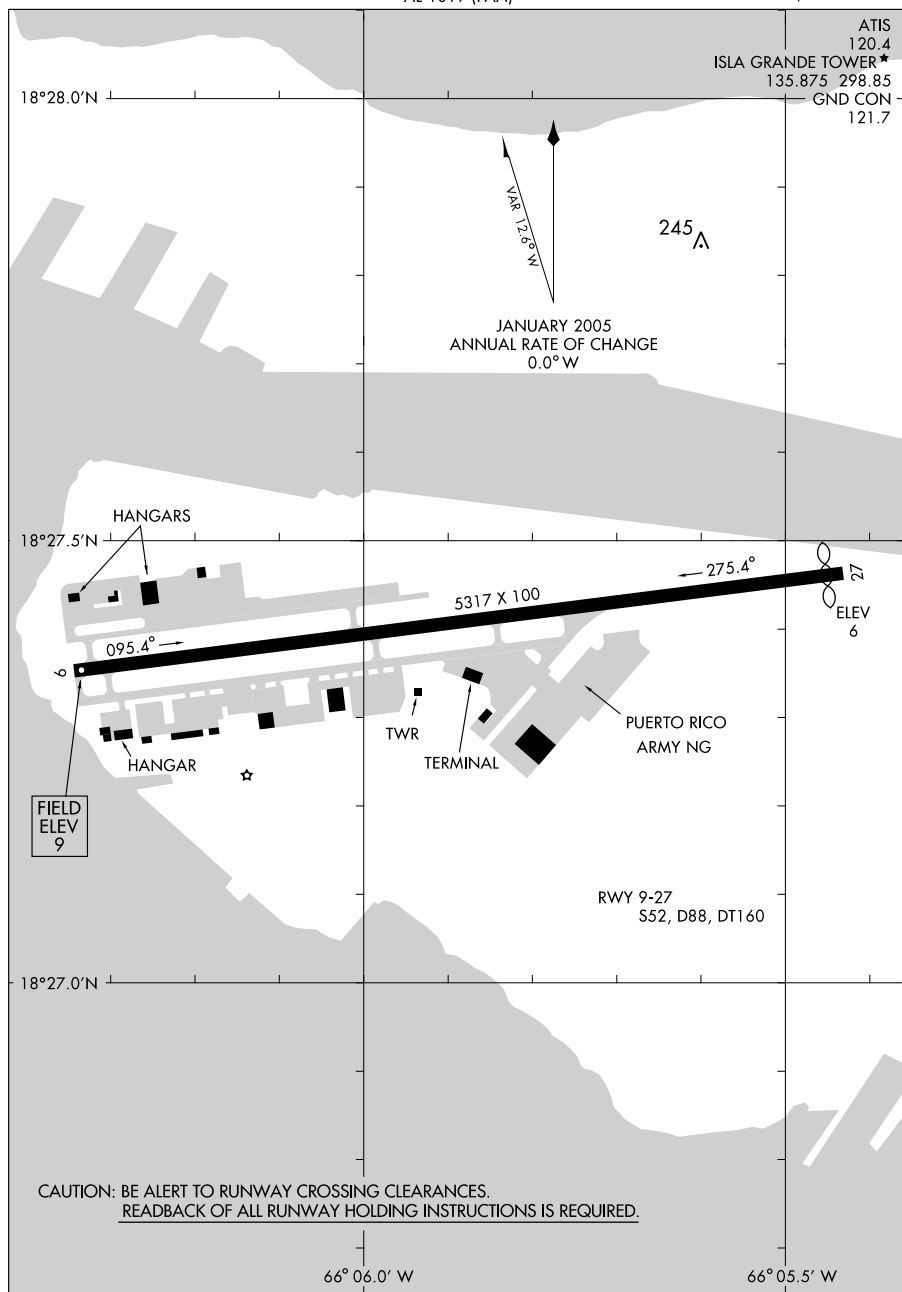
AL-625 (FAA)

ST. PETERSBURG-CLEARWATER, FLORIDA  
ST. PETERSBURG-CLEARWATER INTL (PIE)

10098

## AIRPORT DIAGRAM

SAN JUAN/ FERNANDO LUIS RIBAS DOMINICCI (SIG)(TJIG)  
AL-1019 (FAA) SAN JUAN, PUERTO RICO



## AIRPORT DIAGRAM

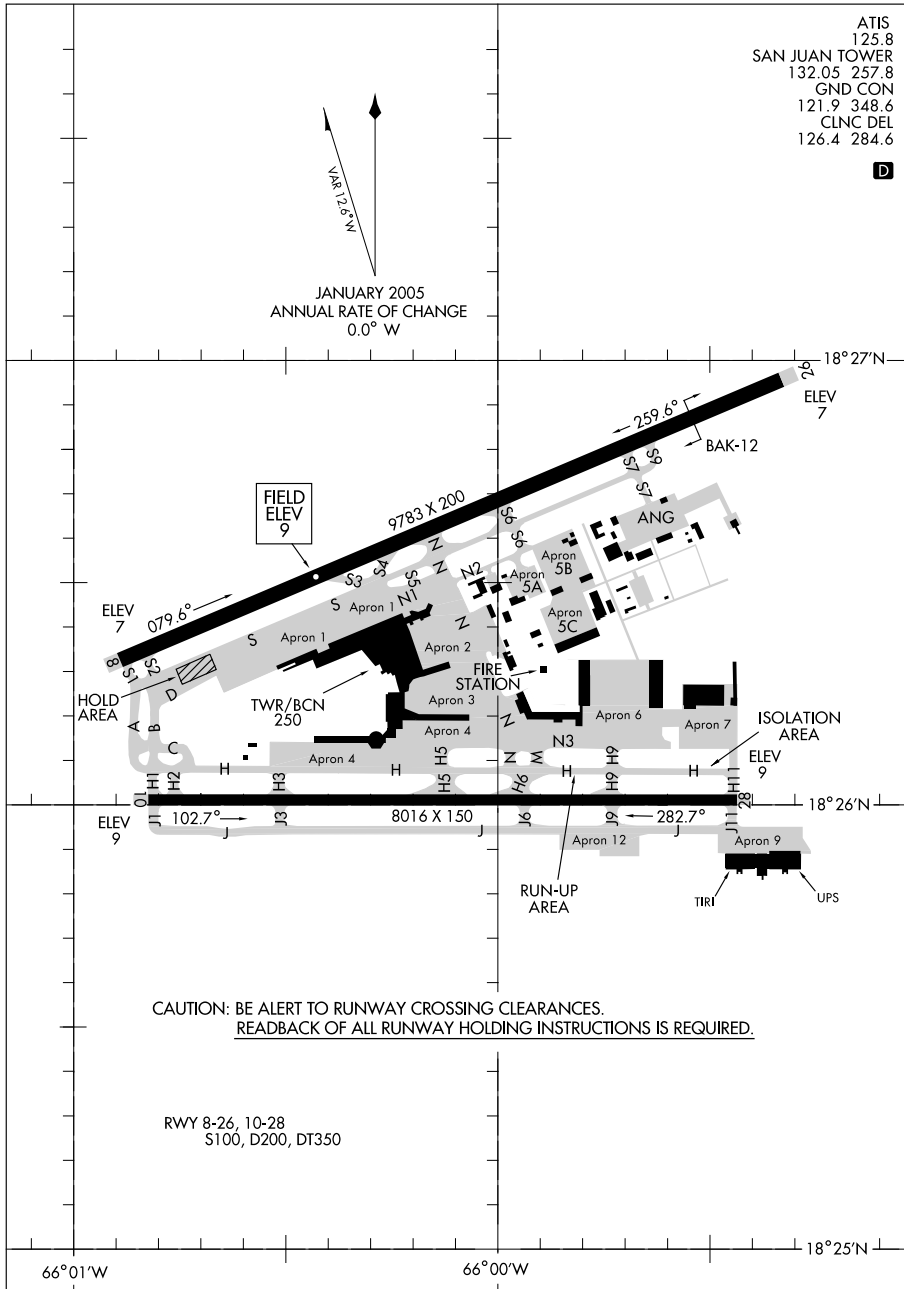
10098

SAN JUAN, PUERTO RICO  
SAN JUAN/ FERNANDO LUIS RIBAS DOMINICCI (SIG)(TJIG)

10098

# AIRPORT DIAGRAM

SAN JUAN/ LUIS MUNOZ MARIN INTL (SJU)(TJSJ)  
AL-784 (FAA)  
SAN JUAN, PUERTO RICO



# AIRPORT DIAGRAM

10098

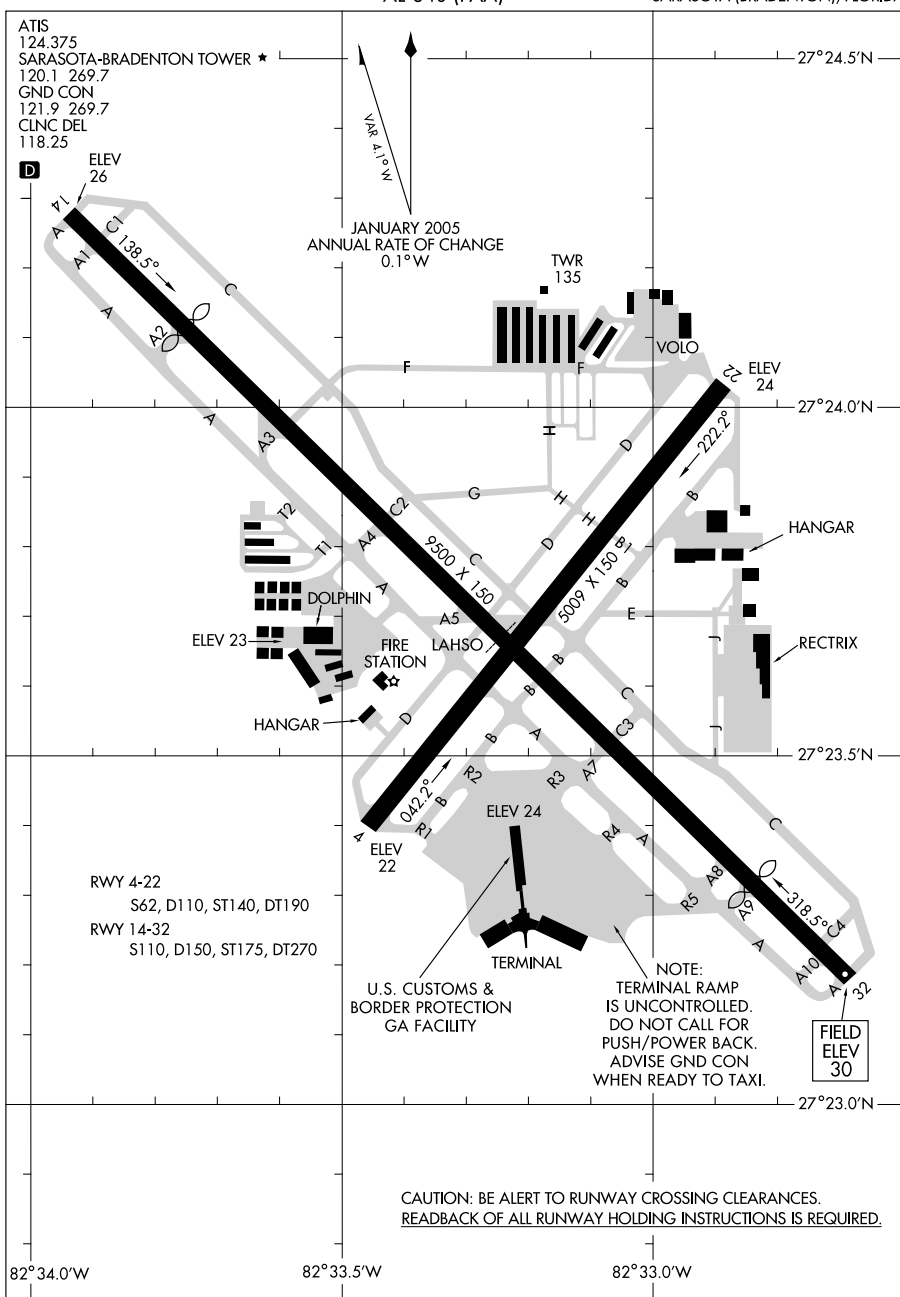
SAN JUAN, PUERTO RICO  
SAN JUAN/ LUIS MUNOZ MARIN INTL (SJU)(TJSJ)

10098

## AIRPORT DIAGRAM

SARASOTA/BRADENTON INTL(SRQ)

SARASOTA (BRADENTON), FLORIDA



## AIRPORT DIAGRAM

10098

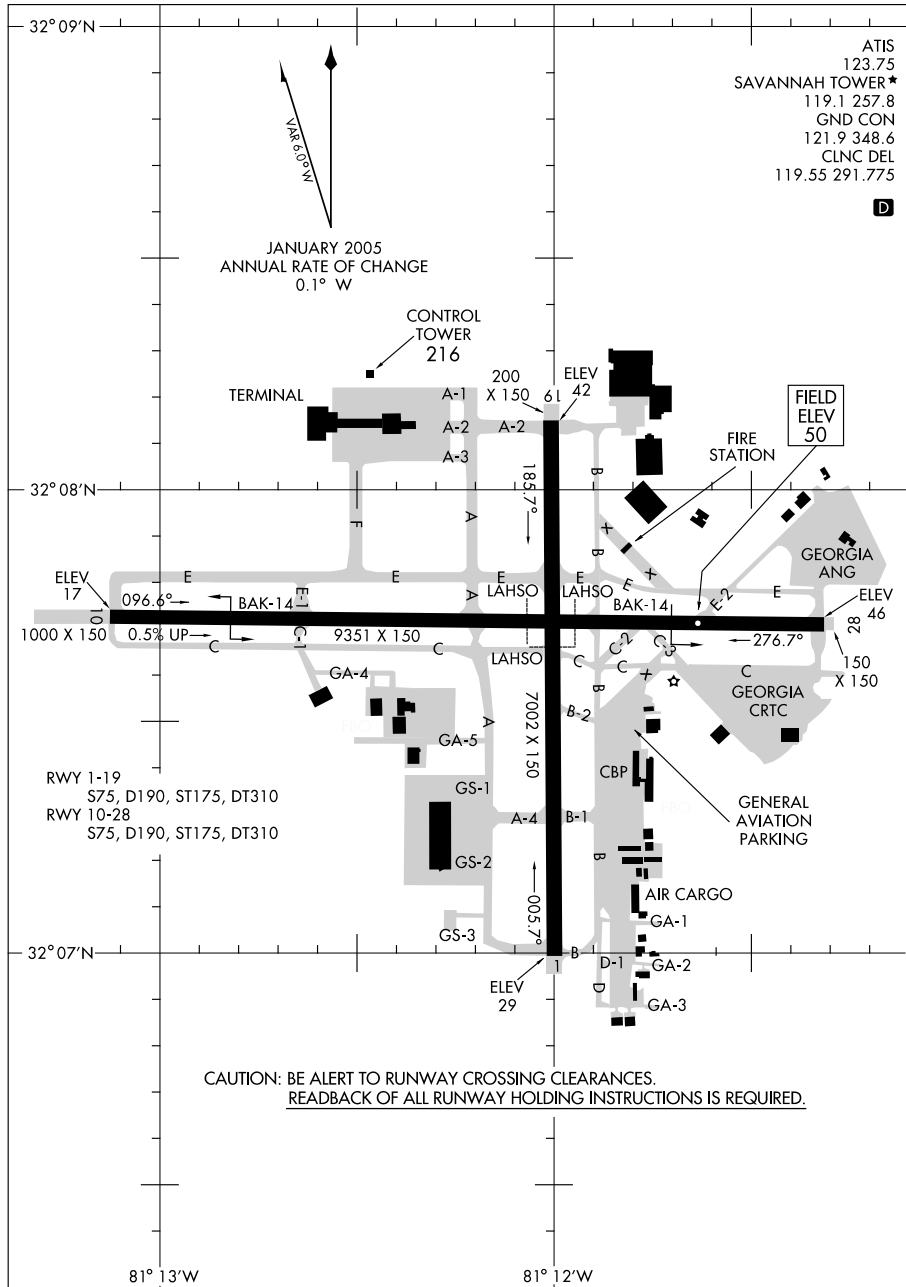
SARASOTA (BRADENTON), FLORIDA

SARASOTA/BRADENTON INTL(SRQ)

09183

## AIRPORT DIAGRAM

AL-380 (FAA)

SAVANNAH/HILTON HEAD INTL (SAV)  
SAVANNAH, GEORGIA

## AIRPORT DIAGRAM

09183

SAVANNAH, GEORGIA  
SAVANNAH/HILTON HEAD INTL (SAV)

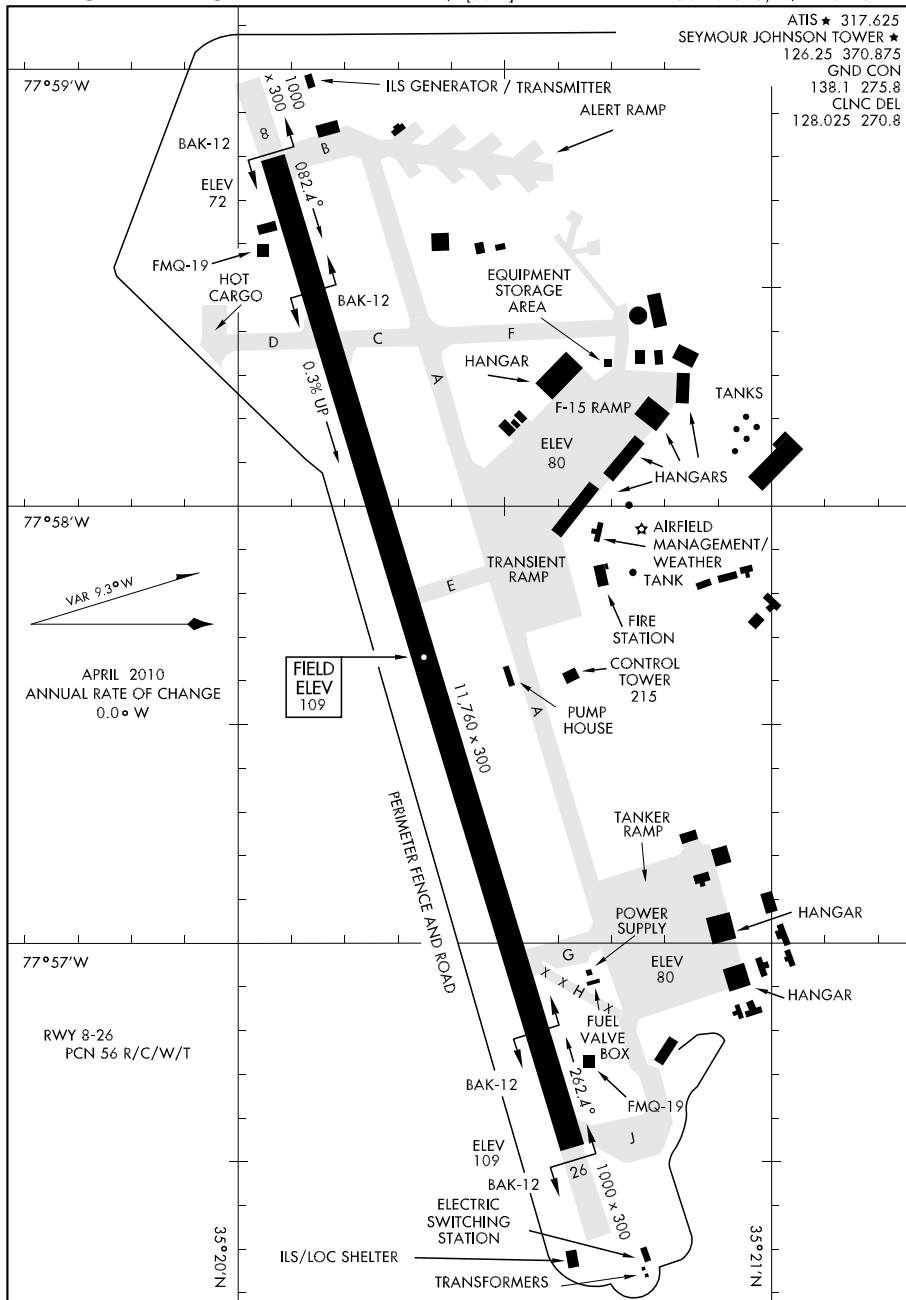
10098

## AIRPORT DIAGRAM

AFD-169 [USAF]

SEYMOUR JOHNSON AFB (KGSB)

GOLDSBORO, NORTH CAROLINA



## AIRPORT DIAGRAM

GOLDSBORO, NORTH CAROLINA

SEYMOUR JOHNSON AFB (KGSB)



SHAW AFB (KSSC)  
SUMTER, SOUTH CAROLINA

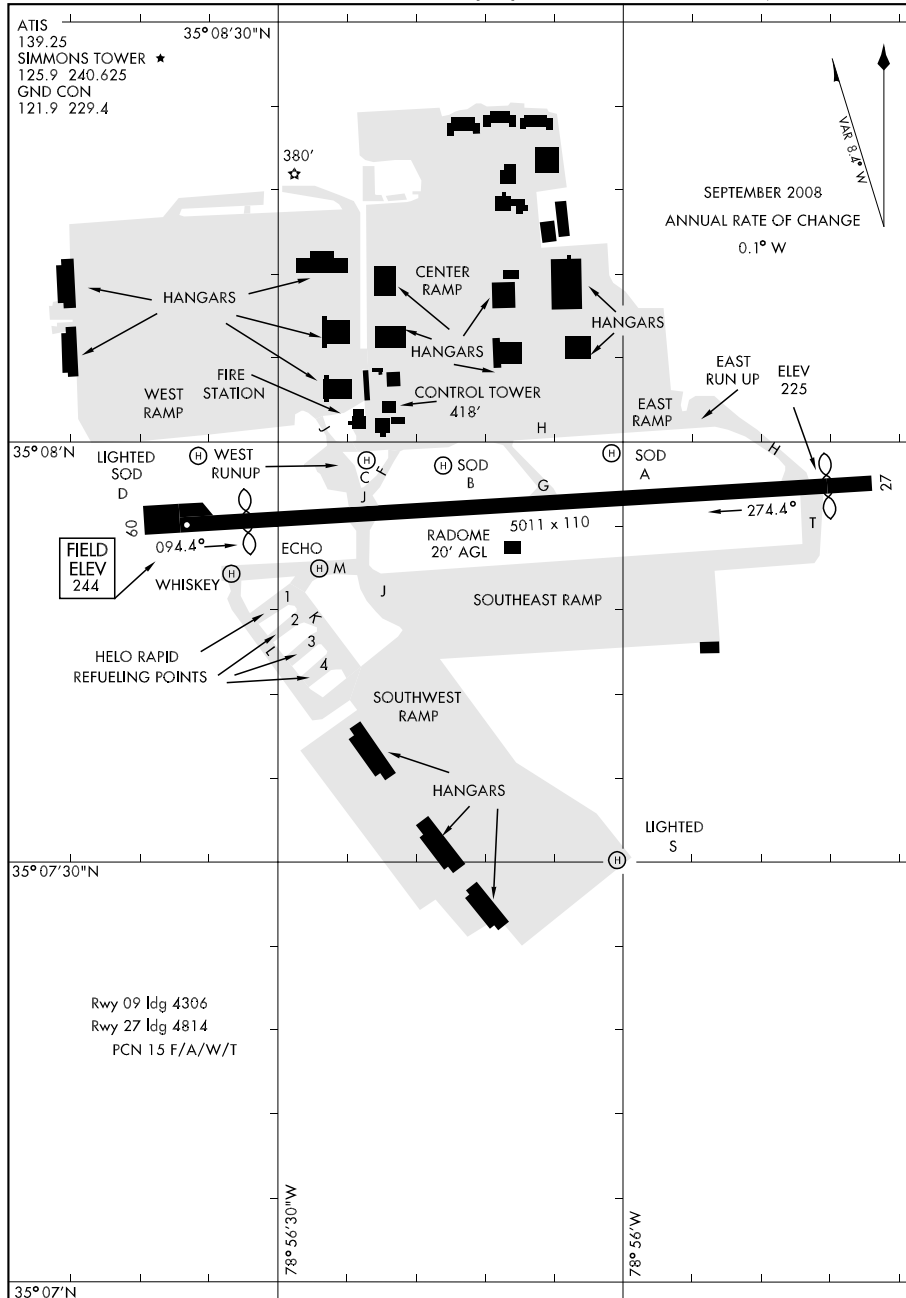


SUMTER, SOUTH CAROLINA  
SHAW AFB (KSSC)

08269

## AIRPORT DIAGRAM

AFD-5069 [USA]

SIMMONS AAF (KFBG)  
FORT BRAGG, NORTH CAROLINA

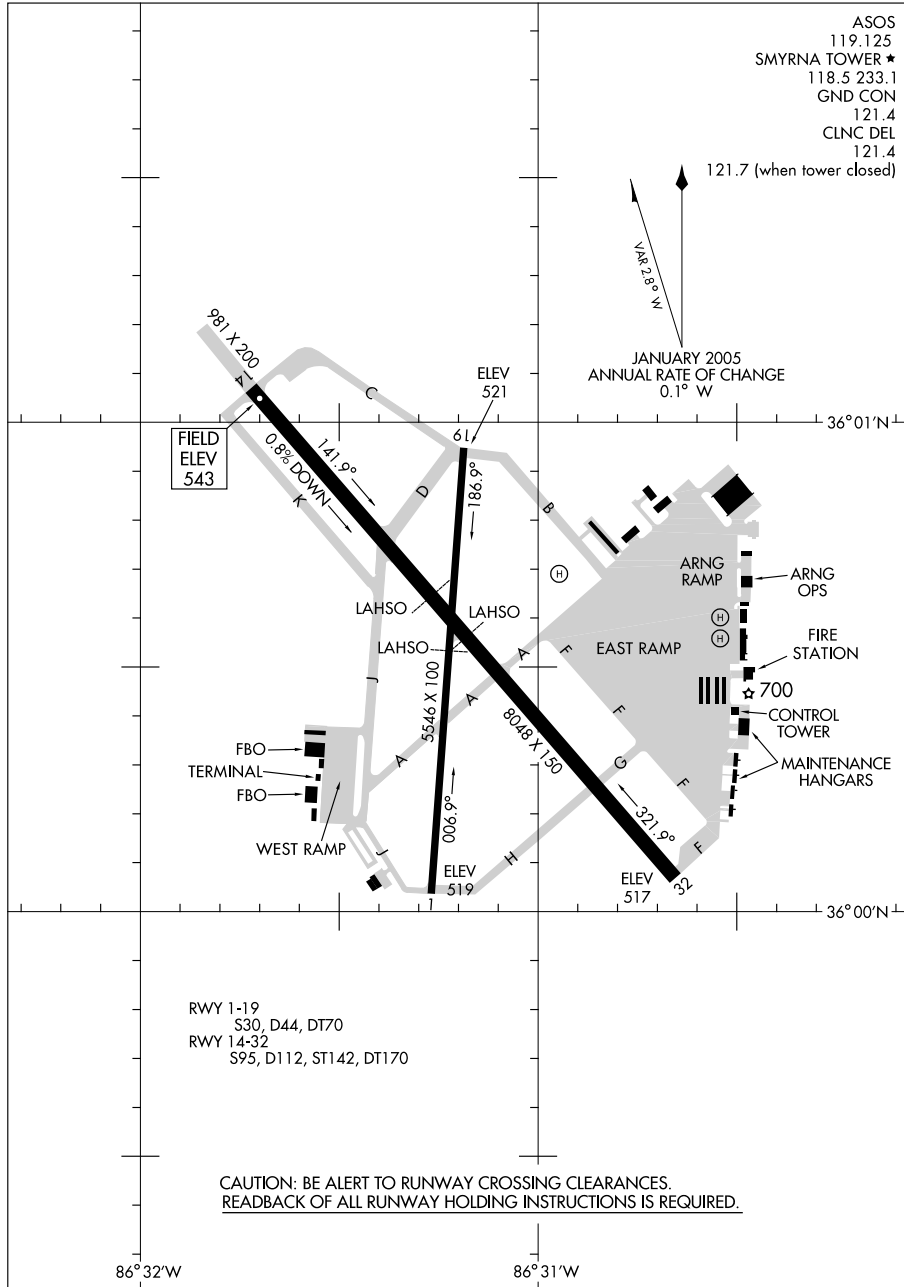
## AIRPORT DIAGRAM

FORT BRAGG, NORTH CAROLINA  
SIMMONS AAF (KFBG)

09351

## AIRPORT DIAGRAM

AL-895 (FAA)

SMYRNA (MQY)  
SMYRNA, TENNESSEE

## AIRPORT DIAGRAM

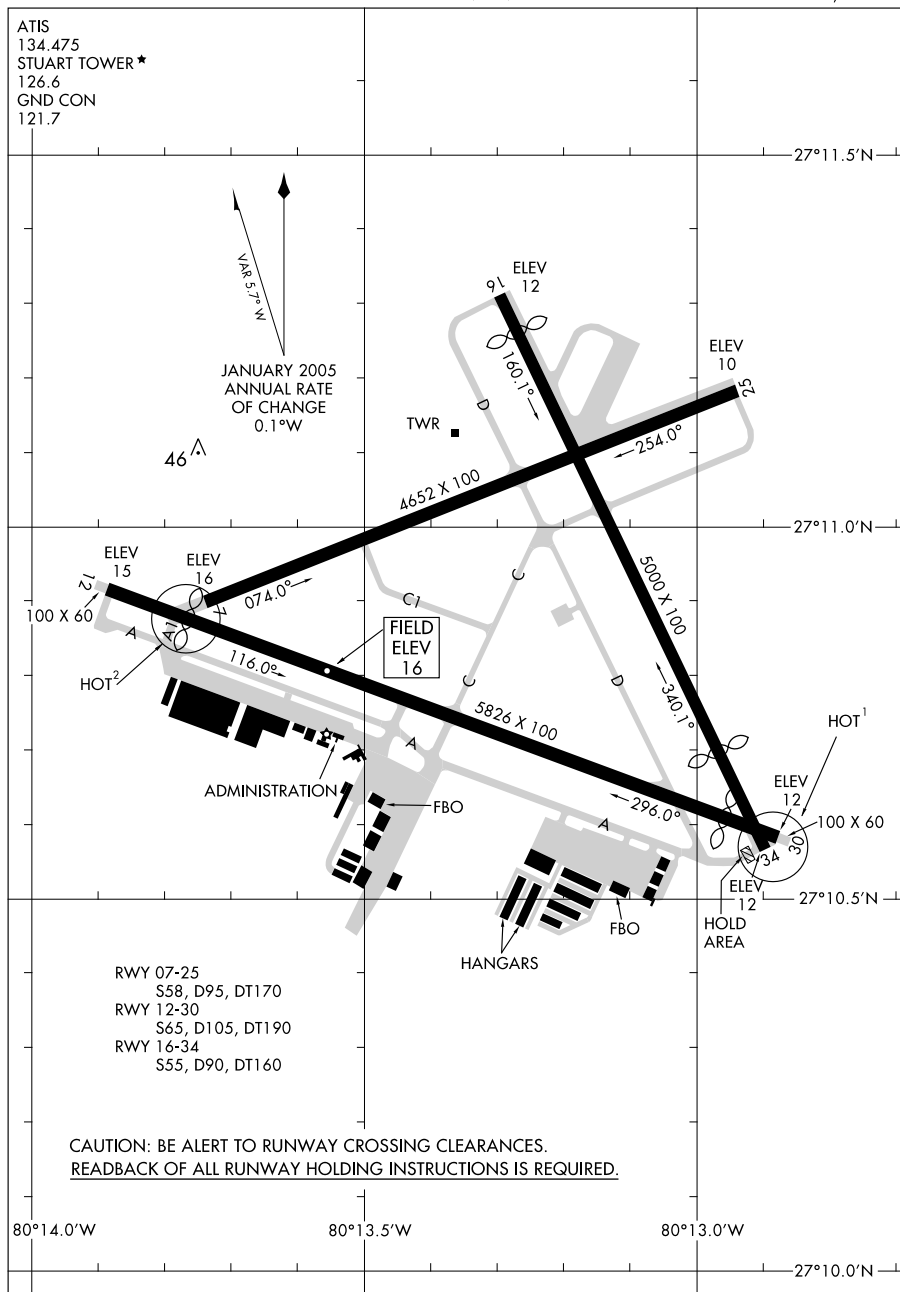
09351

SMYRNA, TENNESSEE  
SMYRNA (MQY)

09239

## AIRPORT DIAGRAM

AL-9217 (FAA)

STUART/WITHAM FIELD (SUA)  
STUART, FLORIDA

## AIRPORT DIAGRAM

09239

STUART, FLORIDA  
STUART/WITHAM FIELD (SUA)

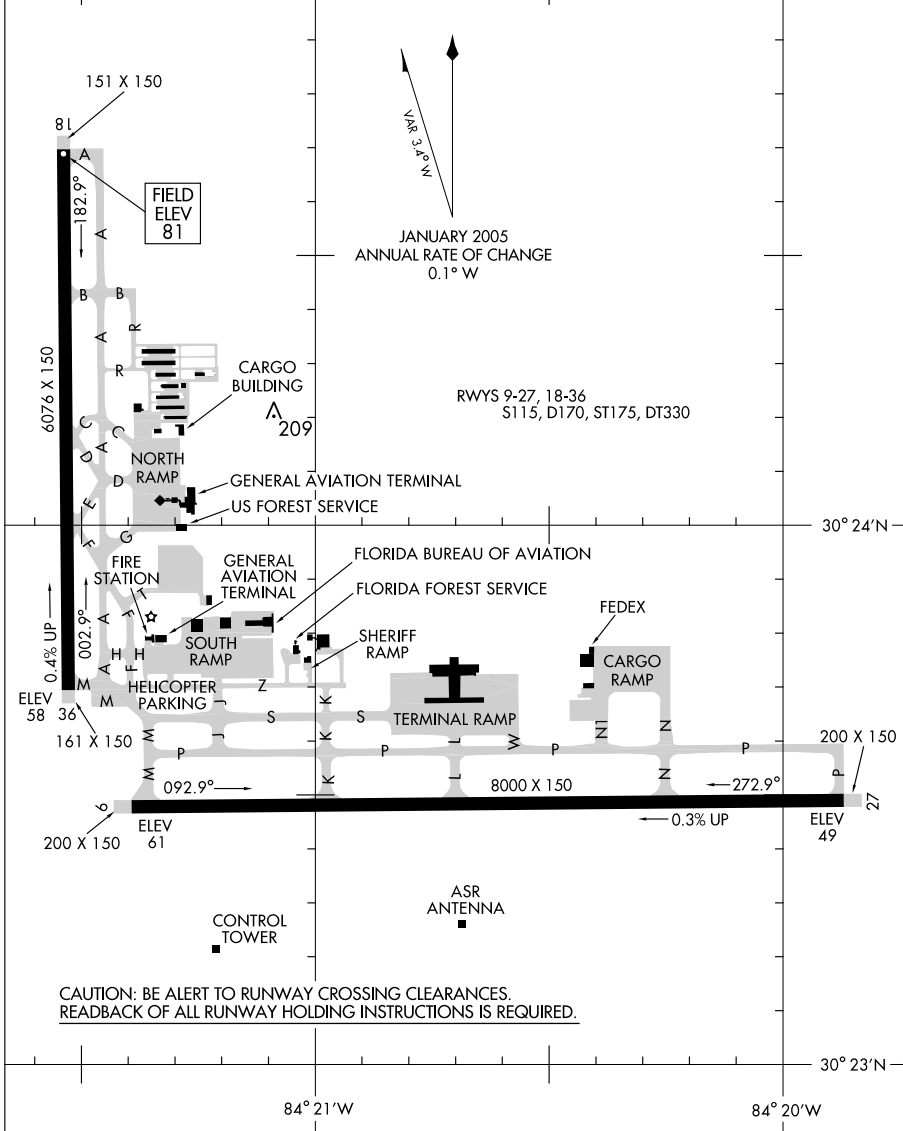
07354

## AIRPORT DIAGRAM

AL-5048 (FAA)

TALLAHASSEE RGNL (TLH)  
TALLAHASSEE, FLORIDA

ATIS 119.45 239.25  
TALLAHASSEE TOWER ★  
118.7 257.8  
GND CON  
121.9 348.6  
CLNC DEL  
126.65 275.8



## AIRPORT DIAGRAM

07354

TALLAHASSEE, FLORIDA  
TALLAHASSEE RGNL (TLH)



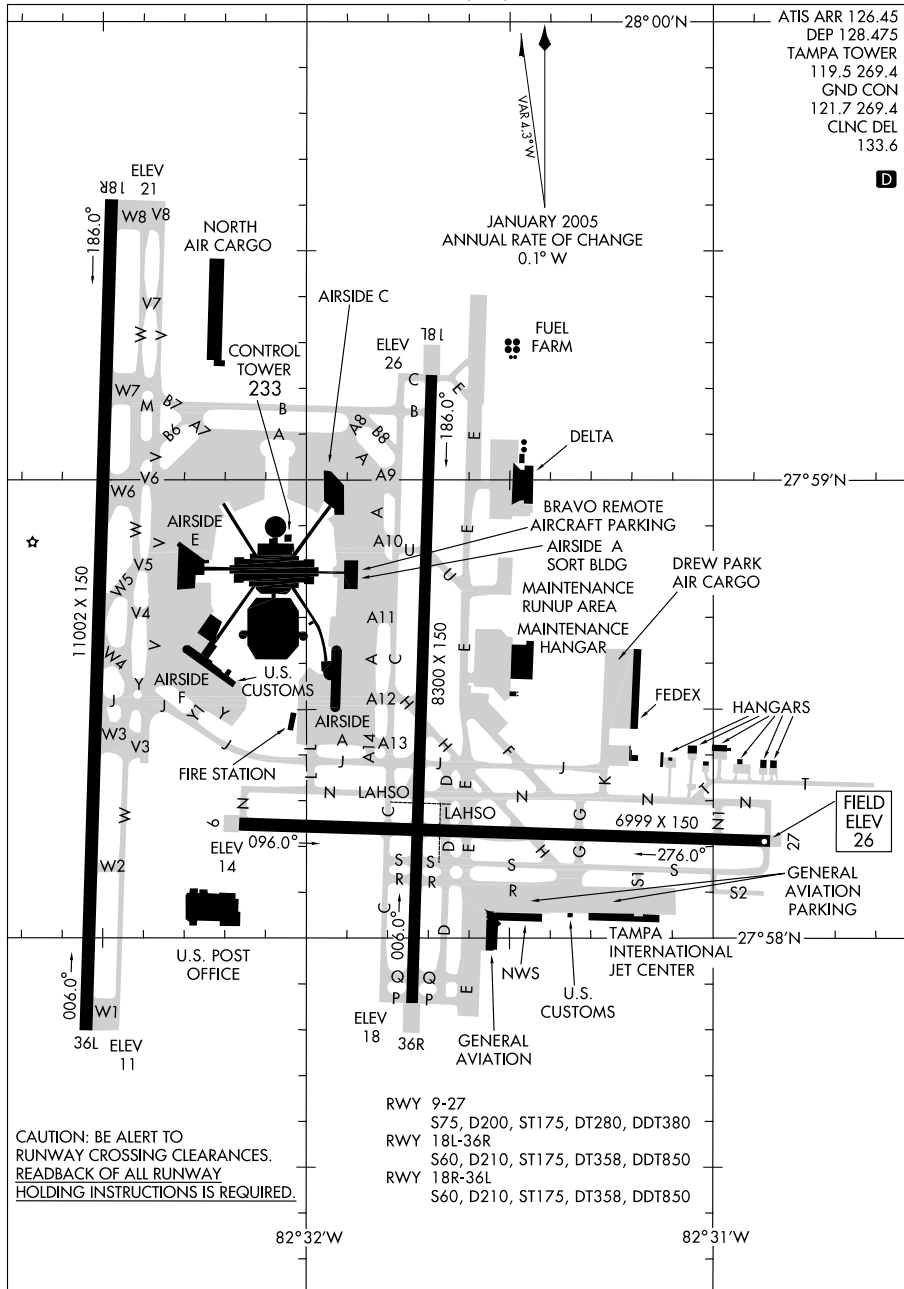
09183

## AIRPORT DIAGRAM

AL-416 (FAA)

TAMPA INTL (TPA)

TAMPA, FLORIDA



## AIRPORT DIAGRAM

09183

TAMPA, FLORIDA

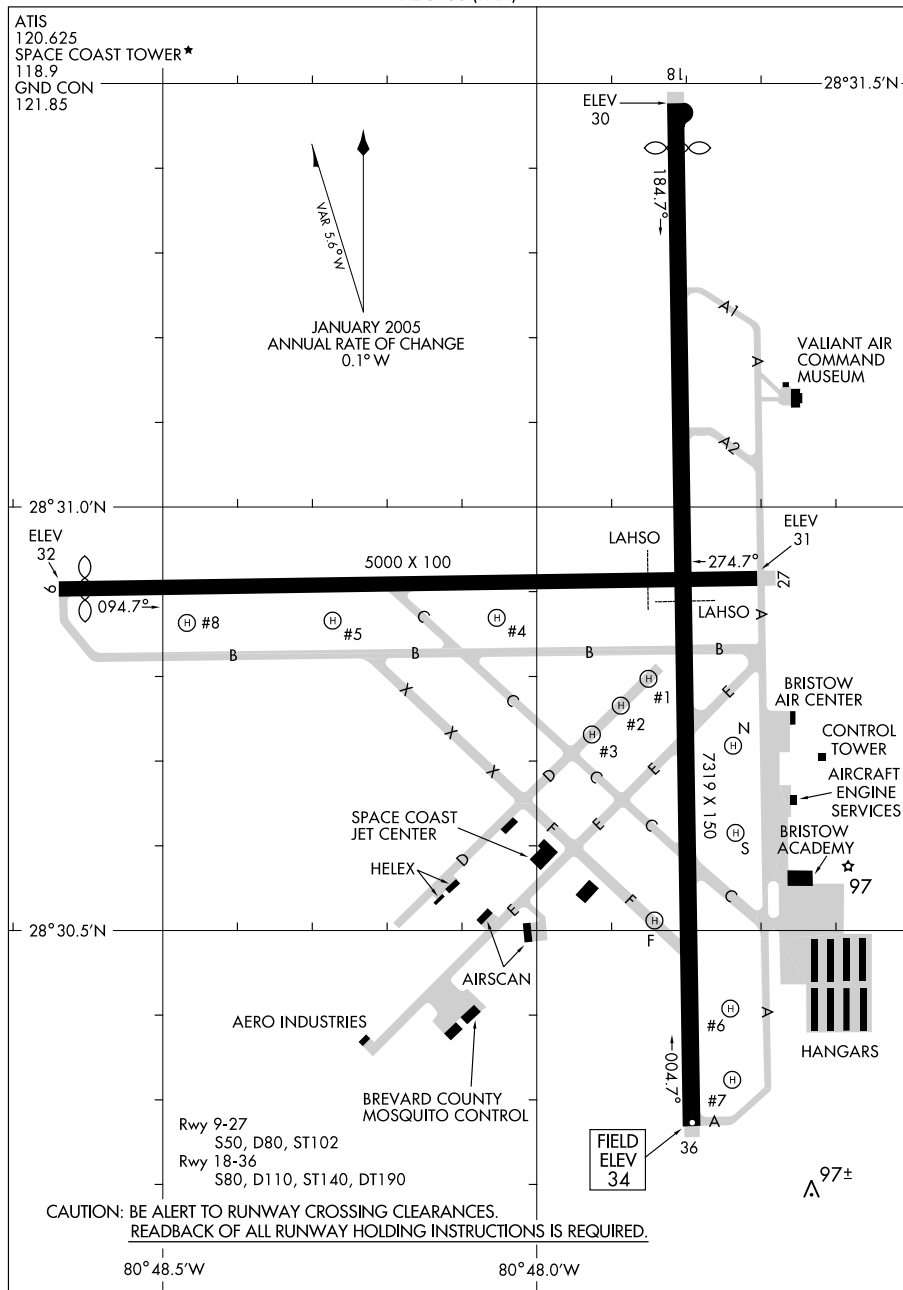
TAMPA INTL (TPA)

SE, 08 APR 2010 to 03 JUN 2010

09295

## AIRPORT DIAGRAM

AL-5760 (FAA)

TITUSVILLE/SPACE COAST RGNL (TIX)  
TITUSVILLE, FLORIDA

## AIRPORT DIAGRAM

09295

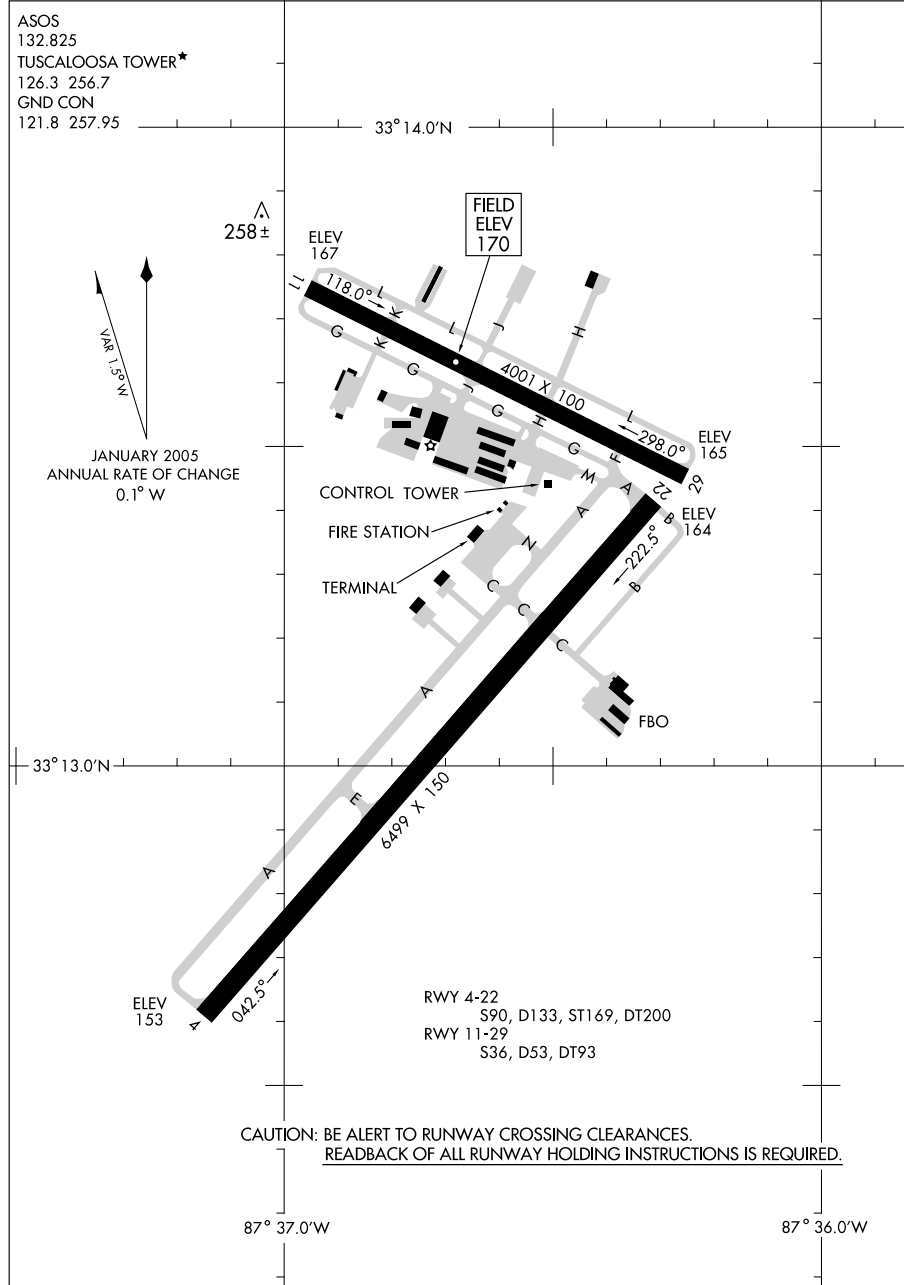
TITUSVILLE, FLORIDA  
TITUSVILLE/ SPACE COAST RGNL (TIX)



09071

## AIRPORT DIAGRAM

AL-487 (FAA)

TUSCALOOSA RGNL (TCL)  
TUSCALOOSA, ALABAMA

## AIRPORT DIAGRAM

09071

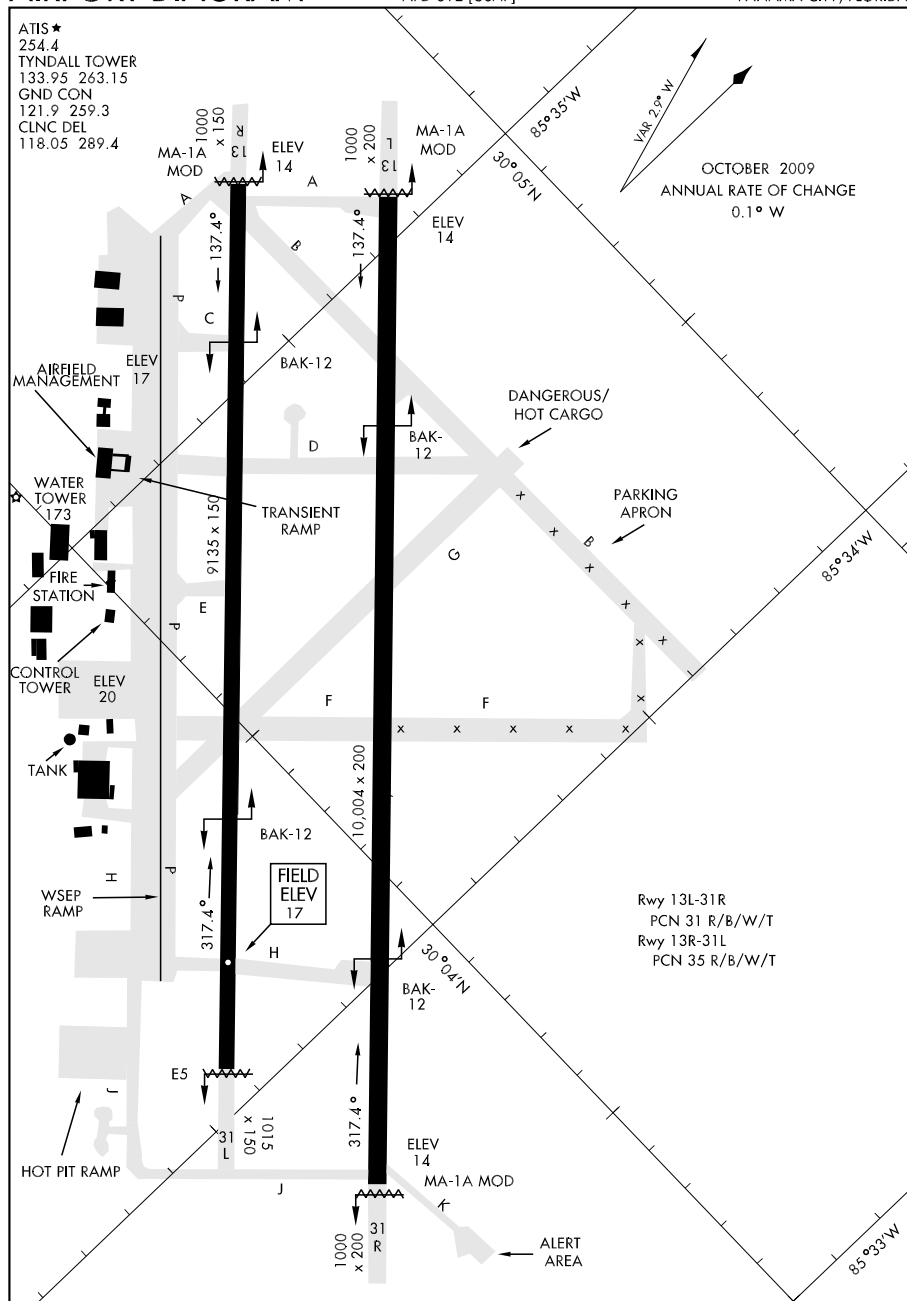
TUSCALOOSA, ALABAMA  
TUSCALOOSA RGNL (TCL)

09295

## AIRPORT DIAGRAM

TYNDALL AFB (KPAM)

PANAMA CITY, FLORIDA



## AIRPORT DIAGRAM

PANAMA CITY, FLORIDA

TYNDALL AFB (KPAM)

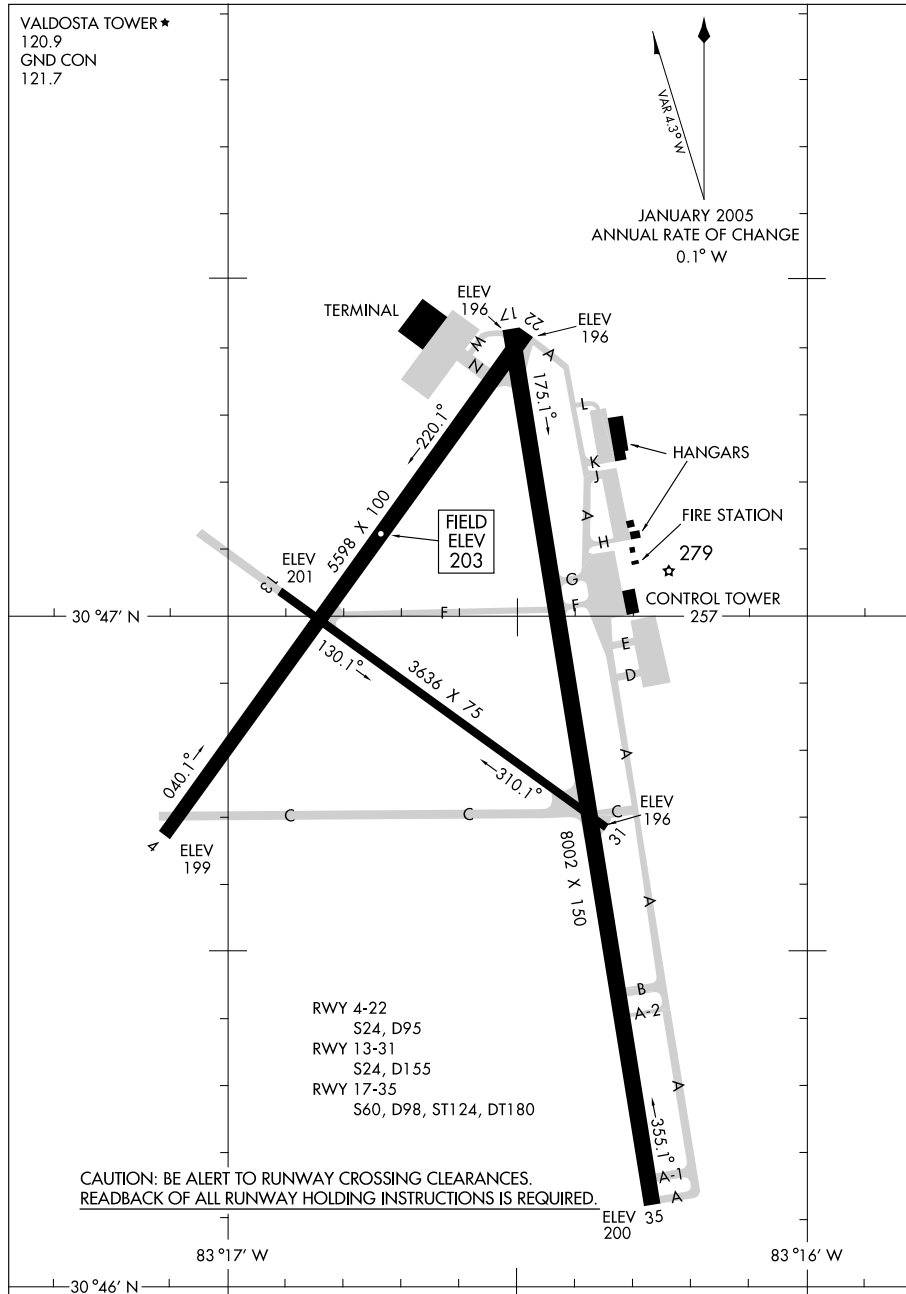
09127

## AIRPORT DIAGRAM

AL-892 (FAA)

VALDOSTA RGNL (VLD)

VALDOSTA, GEORGIA



## AIRPORT DIAGRAM

09127

VALDOSTA, GEORGIA  
VALDOSTA RGNL (VLD)

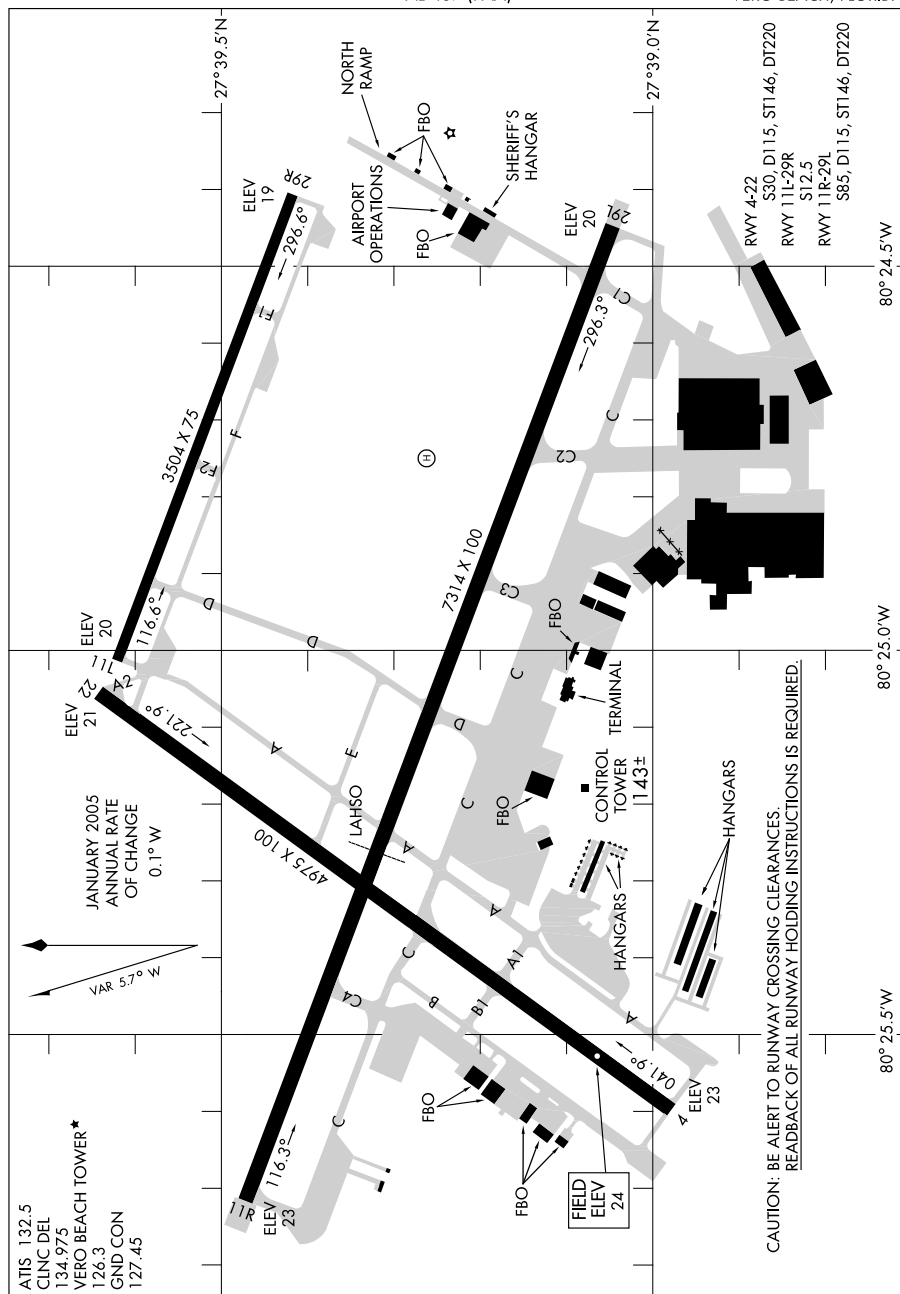
08325

## AIRPORT DIAGRAM

AL-437 (FAA)

VERO BEACH MUNI (VRB)

VERO BEACH, FLORIDA



## AIRPORT DIAGRAM

08325

VERO BEACH, FLORIDA  
VERO BEACH MUNI (VRB)

WEST PALM BEACH/PALM BEACH INTL (PBI)  
WEST PALM BEACH, FLORIDA

WEST PALM BEACH, FLORIDA



SE, 08 APR 2010 to 03 JUN 2010

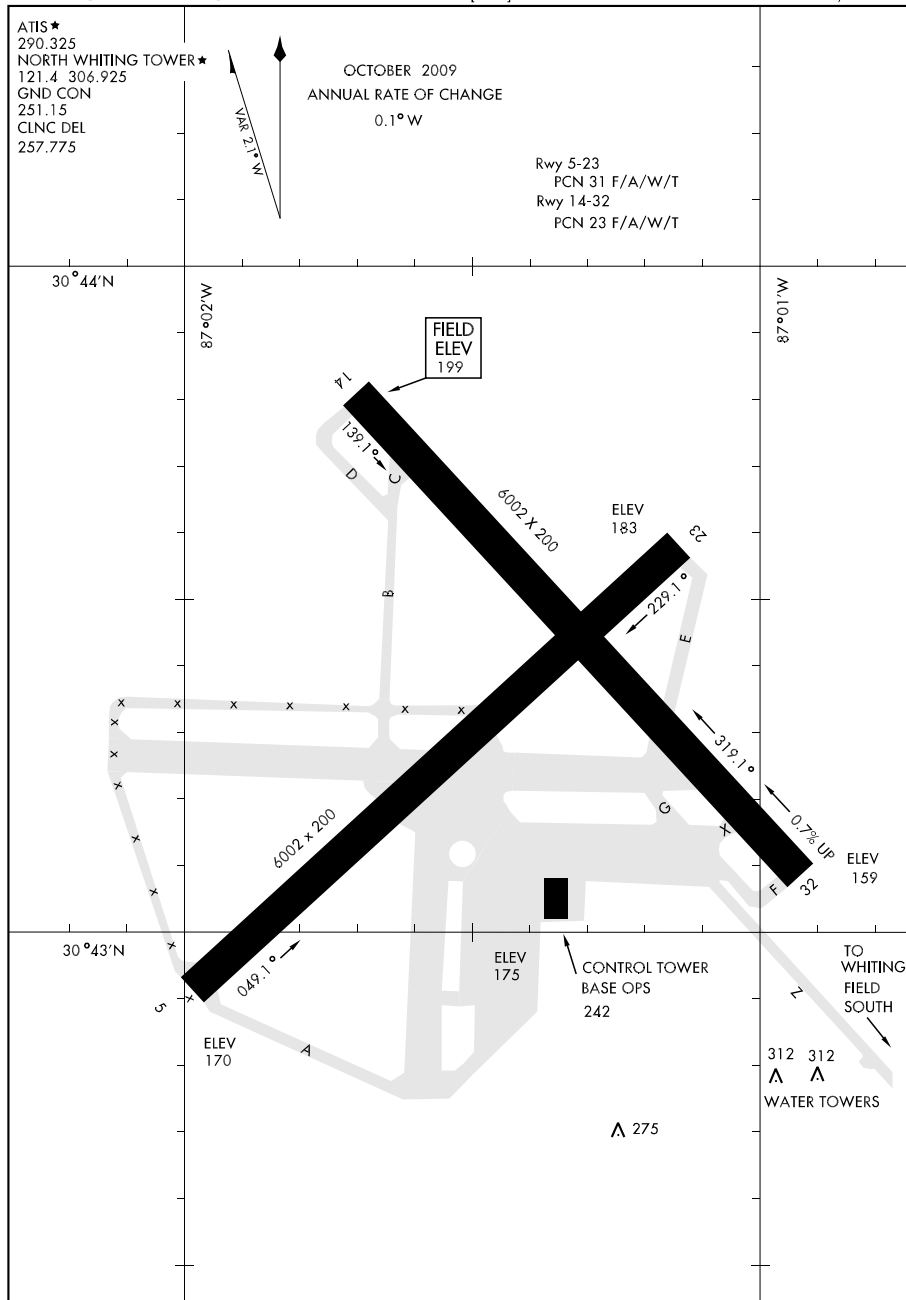
09295

WHITING FLD NAS (NORTH) (KNSE)

## AIRPORT DIAGRAM

AFD-602 [USN]

MILTON, FLORIDA



## AIRPORT DIAGRAM

 MILTON, FLORIDA  
 WHITING FLD NAS (NORTH) (KNSE)

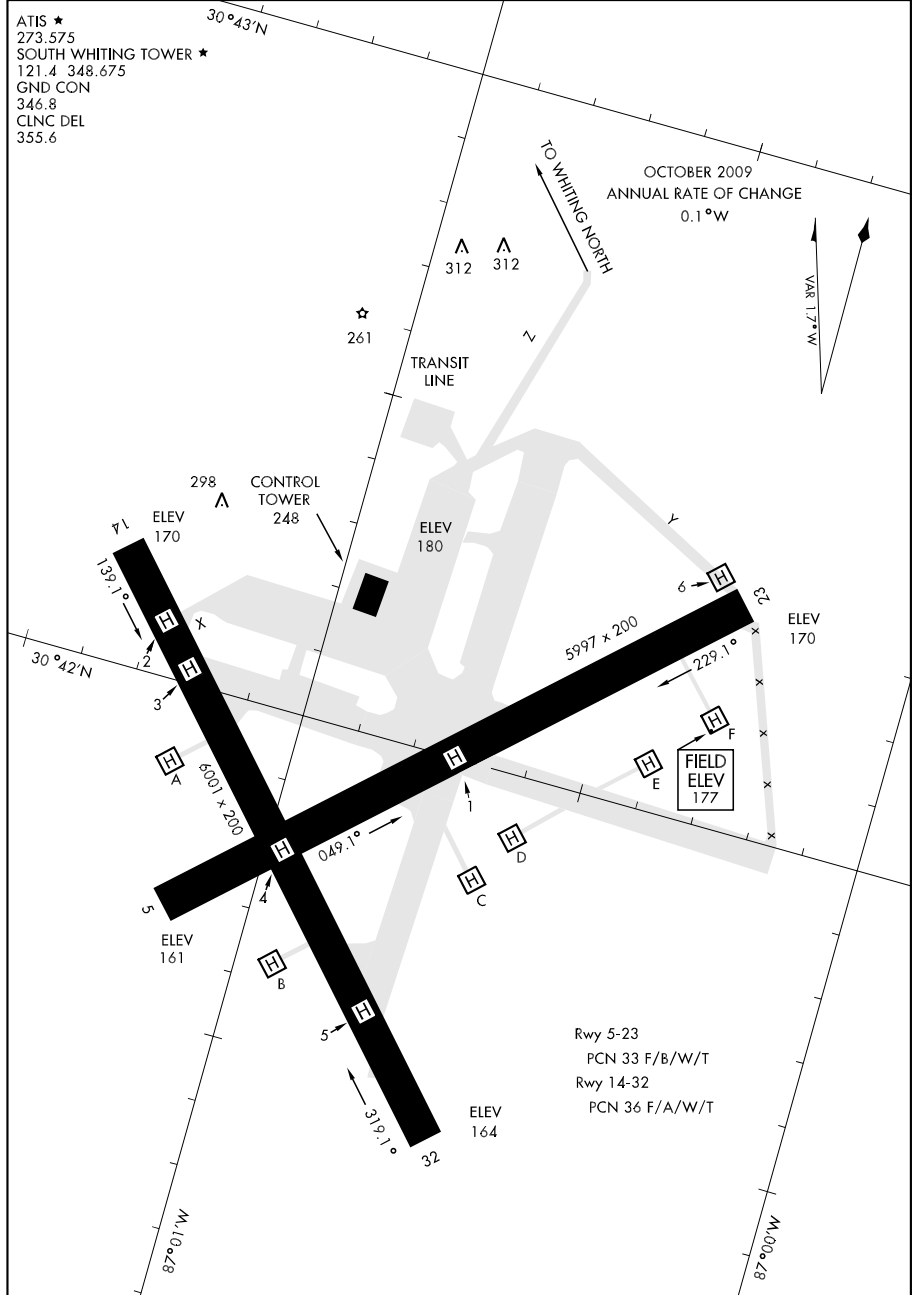
09295

# AIRPORT DIAGRAM

AFD-1909 [USN]

WHITING FLD NAS (SOUTH) (KNDZ)

MILTON, FLORIDA



# AIRPORT DIAGRAM

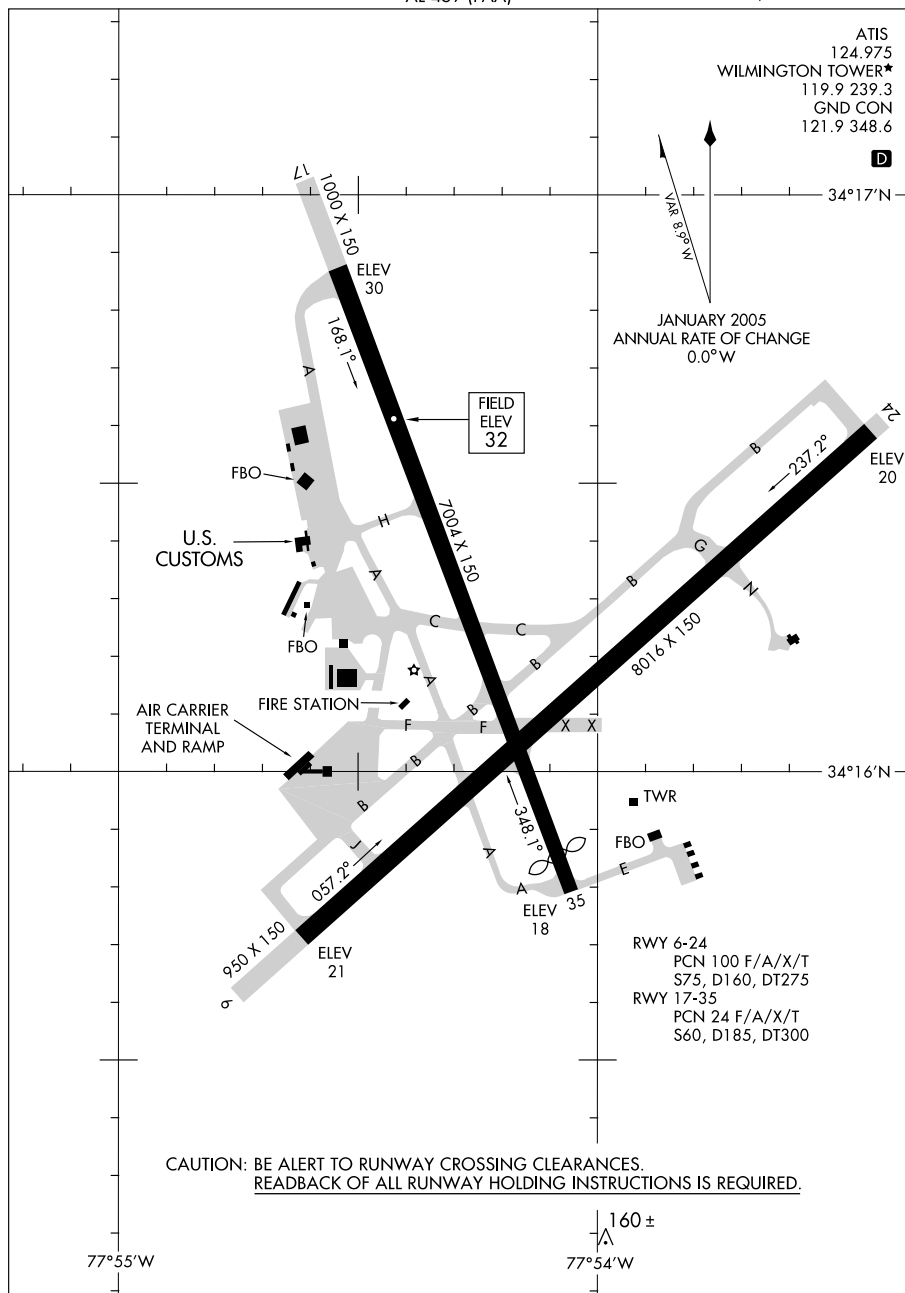
MILTON, FLORIDA

WHITING FLD NAS (SOUTH) (KNDZ)

09295

## AIRPORT DIAGRAM

AL-459 (FAA)

WILMINGTON INTL (ILM)  
WILMINGTON, NORTH CAROLINA

## AIRPORT DIAGRAM

09295

WILMINGTON, NORTH CAROLINA  
WILMINGTON INTL (ILM)

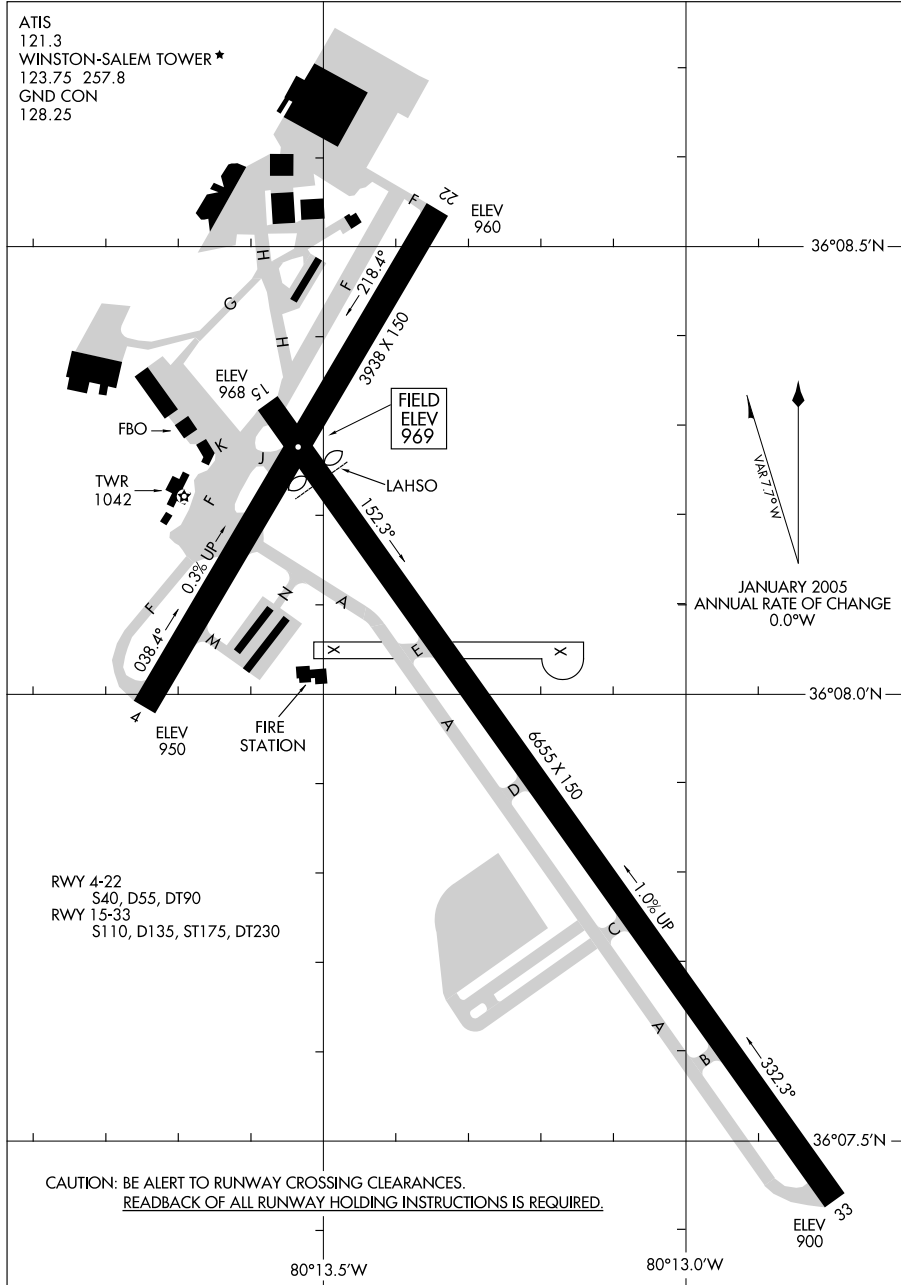


09295

## AIRPORT DIAGRAM

WINSTON-SALEM /SMITH REYNOLDS (INT')  
WINSTON-SALEM, NORTH CAROLINA

AL-463 (FAA)



## AIRPORT DIAGRAM

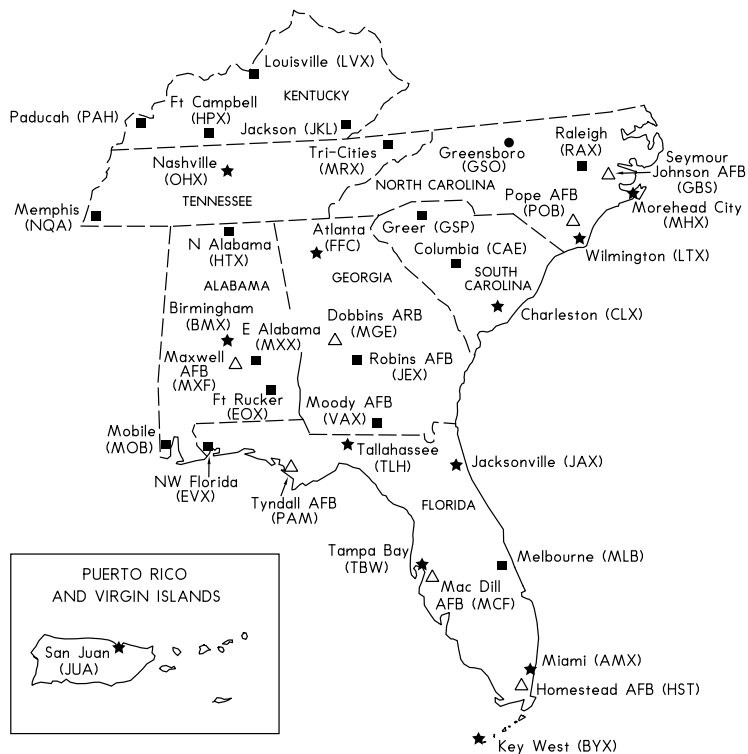
09295

WINSTON-SALEM, NORTH CAROLINA  
WINSTON-SALEM /SMITH REYNOLDS (INT')

**INTENTIONALLY  
LEFT  
BLANK**

**INTENTIONALLY  
LEFT  
BLANK**

NATIONAL WEATHER SERVICE (NWS)  
UPPER AIR OBSERVING STATIONS (UAOS)  
AND  
WEATHER RADAR NETWORK



LEGEND

- △ AVIATION WEATHER SERVICE (MILITARY)
- ▲ AIR TRAFFIC CONTROL RADAR
- ★ UPPER AIR OBSERVING STATION/RADAR
- RADAR ONLY
- UAOS-BALLOON RELEASE AROUND 1100 UTC AND 2300 UTC DAILY
- OTHER NWS UPPER AIR STATIONS-BALLOON RELEASE TIMES ARE FLEXIBLE BUT GENERALLY AROUND SUNRISE AND/OR EARLY AFTERNOON

NOTE: FOR RELEASE LATER THAN 1130 UTC AND 2330 UTC, AND FOR SPECIAL RELEASES AT OTHER THAN THE SCHEDULED HOURS, AN AERONAUTICAL INFORMATION MESSAGE WILL BE FILED.

# ENROUTE FLIGHT ADVISORY SERVICE (EFAS)

See Aeronautical Information Manual (AIM) for available services

